

AD A191 677 SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
FOR A1501 JAPANESE NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC MAR 85

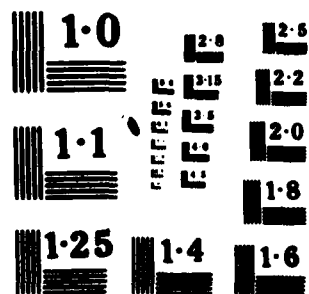
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AD-A151 677

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SMOS, Atsugi, Japan March 1985
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SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

This summary is based primarily on data derived from telecommunications sources. Most tables in this update are based on the period of record (POR) 1973 through 1982. However, a few tables are based on earlier POR's, because Summary of the Day data is not available from telecommunications sources. All available data through 1982 was used for extreme values. In producing these tables, it was assumed that all cloud cover was opaque.

This summary should be retained by individual stations along with previous SMOS. The retention of these summaries will provide the most comprehensive climatological file for your station.

Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals.

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of "0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Oceanography Command Detachment (NOCD), Asheville, N.C. welcomes your comment and criticisms.

STATION NO OR SUMMARY 43319		STATION NAME Atsugi, Japan		LATITUDE 35°27'N		LONGITUDE 139°27'E		STATION ELEV (FT) 203		CALL SIGN RJTA		WMO NUMBER 47679	
STATION LOCATION AND INSTRUMENTATION HISTORY													
NUMBER OF BAND LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY				
			FROM	TO			FEET	TYPE BAROMETER					
1.	Weather Service Office Ops Bldg	Navy		1958	35°27'N	139°27'E	203	Mercurial	24				
2.	Weather Service Office Ops Bldg	"	1958	1971	"	"	214	"	24				
1a.	Weather Service Office Ops Bldg	"	1959	1971	"	"	217	Aneroid	24				
2a.	Weather Service Office Ops Bldg	"	1971	1978	"	"	217	"	*				
3a.	Weather Service Office Ops Bldg	"	1979		"	"	210	"	*				
NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE							
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECEIVER	HT ABOVE GROUND								
1.	8/51	Installed on roof of Ops Bldg	UMQ-5		249'	1. Transmissometer (AN/CNQ-10)							
2.	8/58	890' west of center of runway at mid field	UMQ-5C	RD-108B	219'								
		Surface observation program discontinued and all equipment was turned over to JMSDF 1 July 1971.											

WCCD, Federal Building
Asheville, NC

NOCP, Central Building
Asheville, N.C.

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Low visibility - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations with one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

PART A

ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than 5/8 mile.

Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points (plus calm). Column totals show the number of observations. "% Total" indicates percentage frequency of occurrences.

WEATHER CONDITIONS ATMOSPHERIC PHENOMENA

STATION

ATFUCI, JAPAN

STATION NAME

71-63, 66-71

YEARS

ALL
MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM DAILY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JAN	DAILY	.9	74.4	.9	9.9		29.4	24.7	76.9		.2	81.4	558
FEB		.4	31.7	.4	15.4	.4	38.2	37.4	81.5	.4	1.4	86.8	579
MAR		.9	49.4	.4	9.3	.2	51.3	48.3	79.5	.2	.5	85.3	557
APR		.9	55.1		.7		55.1	60.5	79.4	.2	.7	88.5	539
MAY		7.3	49.8		.2	.4	49.0	74.2	81.5		.7	93.5	558
JUN		2.6	64.1			.2	64.1	83.5	84.8			96.3	540
JUL		4.2	61.3				61.3	83.7	87.5			94.5	527
AUG		3.1	52.8				52.8	77.2	84.3			91.8	527
SEP		2.7	61.8				61.8	75.3	82.9			92.9	510
OCT		1.1	52.4				52.4	67.0	78.4		.2	90.7	527
NOV		1.0	41.6		.6		41.6	51.4	85.7			91.8	510
DEC		.6	27.3		1.7		27.9	35.7	89.2			91.7	527
TOTALS		2.2	47.7	.1	3.1	.1	48.9	59.9	82.7	.1	.3	90.4	6388

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WEATHER CONDITIONS

STATION NAME: ATULUGI, UTAH STATION NAME: YEARS: MONTH: JAN

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
1A	1		5.2		1.7		7.3	4.2	3.4			9.6	175
	27		5.1		1.7		6.7	7.4	2.9			6.1	179
	28		5.8		1.7		7.5	2.7	1.7			4.4	245
	29		5.1		2.1		7.6	3.1	9.0			12.1	287
	10		5.1		1.4		6.4	.7	4.7			5.4	296
	11		5.4		1.7		6.8	.3	3.4			3.7	296
	12		5.7		.7		5.7	1.3	5.1			6.4	297
	13	.3	5.2		1.4		6.6	2.4	4.1		.3	7.0	286
TOTALS		.0	5.7		1.5		6.9	2.5	4.3		.3	6.8	2116

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17-67

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STATION

STATION NAME

TEARS

MONTH

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WEATHER CONDITIONS

STATION NAME

STATION

YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
MAY	10		17.7		.6		18.3	5.1	4.7			9.1	175
	11		17.1		1.7	.6	18.7	9.1	2.1		.6	12.5	176
	12		15.4		1.7		17.3	1.6	5.6			14.0	301
	01		14.2		1.4		14.9	3.4	16.6			23.0	255
	12		12.4		1.0		13.5	1.1	10.1		.7	11.8	296
	1		13.9		1.4		14.2	1.4	8.1		.3	9.7	287
	11		14.3	.7	1.0		15.3	3.0	11.1			14.0	300
	21		17.3			.3	17.3	3.3	4.3			7.3	301
TOTALS			15.3	.7	1.1	.1	16.2	4.6	7.8		.2	12.6	2133

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WEATHER CONDITIONS

STATION: ATSUGI, JAPAN 12-60 YEARS: 40 MONTH: 12

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
12	10		15.3				15.3	8.0	1.7			9.7	176
	11		15.4				15.4	4.6	.6			5.1	175
	12		19.4				19.4	14.1	3.1			17.6	264
	13		12.9				12.9	7.6	10.7			14.3	297
	14		17.7				17.7	1.8	9.2			11.0	207
	15	1.1	21.2				21.2	1.5	4.6			6.4	257
	16	.4	19.3				19.3	4.9	2.1			7.0	255
	17	.4	17.9			.4	18.2	6.0	1.1			7.0	245
TOTALS		.2	10.1			.1	18.2	5.6	4.2			9.8	2050

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MONTH

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WEATHER CONDITIONS

STATION NAME

STATION NAME

YEARS

JUN

MORTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST. TO VISION	TOTAL NO. OF OBS
JUN	01		15.8				15.8	23.2	1.7			24.5	181
	02		19.1				19.1	24.5	.5			30.1	183
	03		24.5				24.5	29.3	1.7			31.1	270
	04		22.3			.4	22.3	8.9	14.5			23.4	267
	05	.4	19.1				19.1	4.2	14.5			18.7	283
	06	.3	19.4				19.4	4.7	9.0			13.9	288
	07	.7	19.2				19.2	5.7	5.2			13.9	287
	08	1.0	17.1				17.1	11.6	1.4			13.0	292
TOTALS		.3	20.0			.1	20.0	15.0	6.1			21.1	2753

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WEATHER CONDITIONS

STATION

JULI, J.F.A.

STATION NAME

73-72

YEARS

JUL
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JUL	00	.6	19.9				19.9	75.4	.6			76.0	161
	01	1.1	15.4				15.4	33.9				33.9	177
	02		13.4				13.4	33.9				33.9	298
	03	.3	15.3			.3	15.6	12.8	9.0			21.9	248
	04		13.4				13.4	3.1	17.0			20.1	294
	05	1.0	14.3			.3	14.7	3.4	10.6			14.7	293
	06	2.0	13.6			.3	14.1	10.7	5.0		.3	16.1	292
	07	1.7	18.5				19.5	15.2	.3			15.5	297
TOTALS		.8	15.7			.1	15.9	17.3	5.3		.0	22.7	2126

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17-32

AYC.

STATION

STATION NAME

YEARS

NOTES

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11

WEATHER CONDITIONS

STATION
ATAMI, JAPAN

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATION

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HALE	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SMOG	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
	00	.5	18.5				18.5	2.2	2.2			22.9	178
	01	1.1	15.2				15.2	2.2	.7			22.9	176
	02	.3	21.2				21.2	2.2	.7			24.1	284
	03		20.5				20.5	2.7	.7			23.9	288
	04	.3	19.0				19.0	2.1	10.7			21.8	281
	05		16.2				16.2	3.8	7.6			27.6	227
	06		19.1				19.1	10.2	6.8			36.1	293
	07	.7	17.4				17.4	12.5	2.4			32.3	267
TOTALS		.4	19.3				18.8	12.9	4.9			36.6	2790

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WEATHER CONDITIONS

ATSUMI, JAPAN.

STATION NAME

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MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

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WEATHER CONDITIONS

STATION ATAMI, JAPAN

17-57

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STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
AUG	1		12.7				12.9	16.7	6.2			23.0	205
	2		14.1				14.1	1.4	2.9			21.4	206
	3		12.3				12.3	15.5	3.4			19.2	292
	4		15.2			.4	15.6	7.0	17.2			24.2	285
	5		10.5				10.3	7.0	15.2			16.2	296
	6		9.4				9.4	2.5	15.6			13.4	238
	7		11.7				11.9	5.1	19.0			24.1	295
	8	.3	13.6				13.6	7.1	10.9		.7	16.3	294
	9												
	10												
	11												
	12												
TOTALS		.0	12.5			.1	12.6	9.5	11.3		.1	20.9	2166

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WEATHER CONDITIONS

STATION NAME: ETCHING, JAPAN YEAR: 1957 MONTH: DEC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
DEC	1		5.2		.7		5.2	11.3	8.0			19.2	217
	01		4.3				4.3	10.5	5.7			16.2	210
	02		4.3				4.3	6.4	5.7			12.0	250
	03		4.1				4.1	4.1	23.4			27.5	295
	04		5.4		.3		5.7		19.7			19.7	290
	05		5.4		.7		5.7	1.7	15.9			17.4	298
	06		5.3		.7		5.9	2.0	23.7			25.7	304
	07		7.3		.3		7.3	4.5	16.8			21.3	286
	08												
	09												
	10												
	11												
	12												
	13												
	14												
	15												
	16												
	17												
	18												
	19												
	20												
	21												
	22												
	23												
	24												
TOTALS			5.2		.3		5.3	5.1	14.9			19.9	2204

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WEATHER CONDITIONS

STATION
ATSEKI, JAPAN

STATION NAME

73-37

YEARS

ALL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS ST	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	ALL	.7	5.7		1.5		6.9	2.5	4.3		.0	6.8	2116
FEB		.1	5.0		2.7	.1	9.9	4.0	7.9		.1	11.9	1936
MAR			15.3	.0	1.1	.1	16.2	4.6	7.8		.2	12.6	2133
APR		.2	18.1			.1	18.2	5.6	4.2			9.8	2050
MAY		.1	13.4				13.6	11.4	6.2			16.6	2125
JUN		.3	20.0			.1	20.0	15.0	6.1			21.1	2053
JUL		.8	15.7			.1	15.8	17.3	5.3		.0	22.7	2126
AUG		.7	13.7				13.7	16.7	6.3		.1	23.1	2136
SEP		.4	18.8				19.8	12.2	4.9			17.8	2090
OCT		.2	14.8				14.9	11.5	6.4			17.9	2212
NOV		.0	12.6			.1	12.6	9.5	11.3		.1	20.9	2166
DEC			5.2		.3		5.3	5.1	14.9			19.9	2204
TOTALS		.2	13.5	.0	.4	.0	13.8	9.6	7.1		.0	16.8	25347

NAVWEASERVCOM

• SUB. of A

JANUARY 1973-DECEMBER 1982

JANUARY

WIND DIRECTION	RAIN IN 24 HRS	RAIN IN 12 HRS	PRECIPITATION IN 24 HRS	PRECIPITATION IN 12 HRS	SLEET IN 24 HRS	SLEET IN 12 HRS	SNOW GRAINS IN 24 HRS	SNOW GRAINS IN 12 HRS	WIND SPEED IN 24 HRS	WIND SPEED IN 12 HRS	THUNDER	FOG	ICE FOG GROUND FOG	SMALL HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO. OF WEATHER
N	0.0	0.0	0.9	0.3			2.6	1.4			0.2	2.4		5.3			85.6
NNE	0.0	0.3	0.3				1.4					1.7		2.6			89.9
NE	0.0	1.7	0.8				3.4					0.8		2.5			89.1
E	0.0	0.0					1.5					1.5		4.3			89.4
ESE	0.0	0.0	0.2											4.4			95.6
SE	0.4	0.0												6.5			90.3
SSE	0.0	0.0												6.9			89.7
S	0.0	0.0	0.7									2.7		15.3			89.7
SSW	0.0	0.0					1.7							1.8			93.8
SW	0.0	1.5												3.3			90.0
WSW	0.0	0.0												3.0			93.9
W	0.0	0.0										2.3		2.3			95.5
WNW	0.0	0.0										3.1					96.9
NW	0.4	1.7										3.4		3.4			100.0
NNW	0.0	0.6					2.4					1.2		6.5			88.1
VAR AD																	79.8
ALL							1.6					4.7		5.6			87.7
ALL	0.6	1.5	0.8				3.3				1	4.5		9.0			179.2
ALL	4.3	0.7	0.4				1.6				0.0	2.2		4.3			86.5

TOTAL NUMBER OF OBSERVATIONS 2,072

NAVWEASERVCOM

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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

A 5001, JA AN

JANUARY 1973-DECEMBER 1982

FEBRUARY

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SUNNY HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.1	.8	1.1			4.1			4.1		6.3			72.2
NNE	.3	.3	1.0			2.9			5.4		5.1		.3	78.0
NF	.3								2.1		12.8			81.9
ENE	5.1								1.9		20.8			71.7
E	.								2.3		11.6			79.1
ESE	.					4.3			4.3		21.7			69.0
SE	.		3.7						3.7		14.8			77.8
SSE	.										5.6			74.4
S	.	1.4									8.5			80.4
SSW	1.1	3.7	1.3					1.3	1.3		5.3			46.3
SW	1.1	1.6									1.6			95.2
WSW						3.9			7.7		7.7			80.8
W									12.5		4.2			93.3
WNW			.3			5.3					5.3			84.2
NW			1.8			1.8					5.5			87.3
NNW	1.3					3.0			1.5		6.8			76.7
VARIABLE														
ALM									10.5		10.5			66.7
TOTAL	1.4	12	14			43		1	69		150		1	1457
TOTAL	.1	.8	.7			2.3		.1	3.7		8.3		.1	77.7

TOTAL NUMBER OF OBSERVATIONS 1,874

NAVWEASERVCOM

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A S U P P L E M E N T

JANUARY 1973-0 DECEMBER 1982

43

WIND DIRECTION	RAIN IN LAST HOUR	SPEEDING RAIN PRECIPITATION RATE	LAST HOUR WATER IN CISTERN	SNOW GRAINS PER FEET SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SMOKE	BLOWING SAND AND DUST	WEATHER
N	2.	1.2	1.1	2.6			5.7		6.5		.2	61.5
NNE	1.2	1.0	1.0	.7			3.1	.3	5.4		.3	75.9
ENE	.	.	.	1.5			3.3		8.3			76.9
E	.1	.1	1.4				4.1		17.6			64.3
ESE	1.	4.1	1.4						21.6			71.3
ESE		3.7	1.9				3.7		5.6			81.5
ESE	.3	2.3					2.3		11.6			76.4
ESE	.2	2.2		2.2			2.2		15.2			76.1
S	3.	5.9					2.9		4.8			78.5
SSA	.	3.4					3.0		5.3			84.1
WSA	.	4.5					3.0		6.1		1.5	81.8
WSA	.	2.6							12.8			32.1
W	.6								11.1			83.3
NNW	.7	7.7					7.7		7.7			68.7
NNW	.	3.1					2.4					78.1
NNN	27.		.7	2.2			3.8		6.3			61.6
VARIABLE	27.7	2.2					11.7	1.1	11.0			87.8
A.M.	26.	47	16	1	25		90	2	169		3	1487
P.M.	17.3	2.2	.8	.0	1.2		4.3	.1	8.1		.1	75.9

TOTAL NUMBER OF OBSERVATIONS 2,008

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

STATION NO. 13 STATION NAME SUTSU, JAPAN YEAR JANUARY 1973-DECEMBER 1982 MONTH APRIL NO. OF YEARS 1

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	.0	2.5	3.1					.2	7.8		3.1			55.3
NNE	.0	4.2	.9						6.6		6.1			66.5
NE	.0	3.7	5.9						3.0		5.9			73.3
ENE	.0								7.7		16.9			69.2
E	11.0	1.3	1.3						1.3		8.8			76.3
ESE	.0		3.0						6.1		3.3			84.8
SE	.0	3.6	7.1								10.7			71.4
SSE	.0	3.0	1.5						3.0		6.1			77.3
S	.2	5.2	.2						3.2		2.7			81.6
SSW	.0	5.1						1.2	2.0		2.0			92.4
SW	.0	2.5						1.2	1.2		2.5			87.7
WSW	.0	4.0									12.0			68.0
W	2.2										11.1			66.7
WNW	2.2	5.6												72.2
NW	14.0								2.2		3.7			59.3
NNW	2.0	2.4	1.2						3.5		3.5			56.5
VARIABLE														
CALM	4.0	2.0	1.0						10.0		2.0			64.0
TOTAL	30.0	69	30					5	109		87			1405
% TOTAL	.2	3.4	1.5					.2	5.4		6.3			71.5

TOTAL NUMBER OF OBSERVATIONS 2,035

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

JANUARY 1973-DECEMBER 1982														
WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIR SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	7.0	2.4	4.0					.3	14.1		5.3			58.4
NNE	0.1	1.0	3.6						16.6		5.9			63.3
NF	0.8	.1	2.4						11.0		4.9			68.3
ENE	1.0	2.6						2.6	5.3		18.4			57.9
E	.0	3.1							1.6					95.9
ESE	0.0	4.7							2.3		11.6			74.4
SE	7.0	2.6	2.6						2.6		13.2			71.1
SSE	0.0	5.6	1.4						6.9		1.4			77.8
S	0.0	3.3	.3						5.4		8.0			77.3
SSW	0.0	2.5	.4						3.8		5.0			79.1
SA	15.7	2.0	2.0						2.0					82.4
WSW	1.3	6.3	8.3						16.7		8.3			54.0
W	0.0	5.0						5.0	20.0		5.0			45.0
WNW	0.0		5.0						15.7		5.0			67.0
WA	17.2	5.4	2.7						13.5		5.4			56.8
NNW	14.4	3.4	1.1						13.4		2.3			62.1
VARIABLE CALM	24.2	3.7	2.0						20.3		5.2			54.7
TOTAL	22.0	62	37					3	200		126			1456
PERCENT TOTAL	15.1	3.0	1.8					.1	9.6		6.0			69.8

TOTAL NUMBER OF OBSERVATIONS 2,088

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

MOON: JAN

JANUARY 1973-DECEMBER 1982

JUNE

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEDING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL WAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	0.0	2.5	6.2						12.6		3.3			41.6
NNE	0.0	3.6	6.7						13.4		4.1			53.6
NNE	0.0	1.1	7.4					2.1	14.9		8.5			53.2
ENE	0.0	3.6	3.6					2.4	15.5		7.1			60.7
E	0.0	1.3	5.3						6.7		2.7			76.0
ESE	2.0								11.9		4.8			81.0
SE	11.4	0.6							11.4		5.7			62.9
SSE	0.0	1.5						1.5	10.6		12.1			68.2
S	0.0	5.1							9.5		9.8			69.2
SSW	0.0	0.3							5.1		3.6			80.0
SW	0.7	4.2						1.4	8.3		8.3			62.5
WSW	0.3	15.8						5.3	15.8		15.8			52.6
W	0.0		10.0						40.0		10.0			30.0
WNW	0.3	0.3	8.3						13.3		8.3			33.3
NW	0.2	4.2	4.2					4.2	25.0					41.7
NNW	41.0	3.0	4.5					1.5	14.9					35.8
VARIABLE														
CALM	11.4	1.7							3.7		4.2			68.8
TOTAL	101	76	63					9	276		124			1212
% TOTAL	14.0	3.7	3.1					.4	13.6		6.1			59.6

TOTAL NUMBER OF OBSERVATIONS

2,033

NAVWEASERVCOM

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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

STATION NAME

JANUARY 1973-DECEMBER 1982

JULY

WIND DIRECTION	RAIN	RAIN THUNDER	DRIZZLE	FREZZING RAIN FREEZING DRIZZLE	SLYET SHOWERS CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	23.0	5.3	7.5						22.8		2.5			41.8
NNE	.5	4.8	4.8					.6	23.5		7.8			45.8
NF	1.0	.7	1.1					1.1	15.2		9.8			52.2
ENE	1.7	6.9	1.4					2.3	15.3		6.9			54.2
E	.3	7.7	1.1					2.2	14.3		8.8			63.7
ESE	.2	6.5							9.7		16.1			64.5
SE	2.0	5.8							76.5		5.9			55.9
SSE	1.7	3.3	1.7						13.3		13.3			60.0
S	.1	2.8	.5					.4	6.9		6.7			76.3
SSW	.0	2.9	.3					.6	5.8		4.2		.3	82.6
SW	1.0	5.5							17.3		5.8			69.2
WSW	1.3	4.8							19.0		4.8			57.1
W	.0	13.3						13.3	33.3					13.3
WNW	.2	9.1						9.1	36.4					36.4
NW	.4		5.9					5.9	17.6					47.1
NNW	71.0	4.5	6.8					4.5	29.5					31.8
VAR ABLE	2.4	1.9	.5					.5	22.5		1.9			54.9
ALM														
TOTAL	207	88	48					17	333		115		1	1306
PERCENT	17.0	4.2	2.3					.8	16.0		5.5		.0	62.9

TOTAL NUMBER OF OBSERVATIONS 2,076

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

CUTLER, GA. A1

JANUARY 1973-DECEMBER 1982

AUGUST

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLUSH SHOWERS CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIR FALL HAIL	THUNDER	FOG	CE. FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.4	7.0	4.2					.3	27.0		2.2			44.6
NNE	1.1	8.0	2.9					1.5	19.7		7.3			50.4
NE	1.6	7.9	1.0					1.0	22.8		11.9			53.5
NNE	1.3	7.8							8.2		16.4			62.3
E	3.4	6.6						1.7	10.3		10.3			67.2
ESE		8.6									20.0			68.6
SE		1.3							16.7		16.7			54.2
SSE		1.1							5.6		4.2			72.2
S	2.0	6.0						.6	7.6		7.4			76.3
SSW	2.0	5.0	.3					.6	3.6		6.4			81.0
SW		1.4						1.4	5.6		4.2			84.5
WSW	4.0	14.3							19.0		9.5			52.4
W								9.1	27.3		9.1			54.5
WNW	.7	6.7	6.7						13.3		6.7			46.7
NW	.3	7.7	4.3						10.4		8.7			43.5
NNW	1.1	6.3	3.1					1.6	39.1		3.1			35.9
VARIABLE ALM	1.1	4.5	.6						20.7		3.2			54.6
TOTAL	12	147	26					13	312		137			1339
% TOTAL	.2	7.1	1.2					.6	15.0		6.6			64.3

TOTAL NUMBER OF OBSERVATIONS

2,081

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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

JANUARY 1973-0 DECEMBER 1982 01 TENBER

WIND DIRECTION	RAIN THUNDER	RAIN THUNDER	FREEZING RAIN FREEZING THUNDER	FREEZING THUNDER THUNDER	IN W. RAINS PELLETS THUNDER	HAZ SMALL THUNDER	THUNDER	FIG	W. 400 GROUND FIG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.0	4.0	4.6				0.0	15.4		4.4			50.6
NNE	0.2	3.7	3.7					15.1		6.8			59.4
NW	0.0	3.0	1.0					15.1		7.1			75.7
ENE	0.0	0.1						7.8		4.7			76.7
E	0.0	0.3					1.3	3.9		10.1			77.3
ESE	0.0	4.3						7.2		13.0			78.3
SE	0.0	4.8						4.3		14.3			66.7
SSE	0.0	15.2						4.3		2.2			76.1
S	0.0	6.0					0.4	6.1		1.1			80.8
SSW	0.0	3.3						2.4		3.8			89.0
SW	0.0	12.7					2.1	12.8		6.4			61.7
WSW	0.0	0.1					4.5	0.1					72.7
W	0.0	0.0								14.3			71.4
WSW	0.0	25.0						0.3					57.0
W	0.0	4.0						15.0		0.5			47.6
WNW	0.0	11.0	2.6					14.3		3.9			42.2
W	0.0	1.8	1.8					23.9		4.8			54.4
W	0.0	114	44				7	247		104			1322
W	12.0	5.5	2.1				0.3	11.9		5.0			63.8

TOTAL NUMBER OF OBSERVATIONS 2,072

NAVWEASERVCOM

JANUARY 1973-DECEMBER 1982

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TOTAL NUMBER OF OBSERVATIONS 2,190

JANUARY 1973-DECEMBER 1982 NOVEMBER

WIND DIRECTION	RAIN	RAIN SQUALLS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLIGHT SHOWER OR BRISLES	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1	1.2	1.1						10.7		10.7			59.4
NNE	.7	1.2							10.8		13.9			69.4
NE		1.0							3.3		18.7			75.7
ENE									6.7		20.0			76.0
E									2.5		25.0			76.0
ESE											13.0			73.9
SE									3.4		24.1			72.4
SSE									3.4		24.1			72.4
S		2.0						1.0	6.3		14.0			73.0
SSW		4.7							2.8		1.9			89.6
SW		3.9							1.9		5.6			88.9
WSW											10.0			80.0
W									7.1					85.7
WNW									31.4		7.1			71.4
NW									12.5		12.5			64.6
NNW									5.8		6.9			61.8
VARIOUS														
ALL	1.6	1.8							20.8		12.8			60.0
TOTAL	27.9	32	11					1	191		253			1412
PER HOUR	11.1	1.5	.5					.0	9.0		11.9			66.3

TOTAL NUMBER OF OBSERVATIONS

2,129

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

3 1 50 1, 01 AM JANUARY 1973-DECEMBER 1982 DECEMBER

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N		.7	.3			.4			9.1		16.3			75.1
NNE	1.4	1.2	.3						3.3		10.4			85.9
NF	1.4	.8				.5			.8		15.8			81.2
ENE	2.6	1.3							1.3		22.8			72.2
E		1.7							1.7		20.3			76.3
ESE						3.7			3.7		14.8			77.8
SE											9.5			90.5
SSE									2.9		8.8			88.2
S	.1								3.1		16.3			79.6
SSW	.1	2.1									7.4			89.5
SW		1.1									11.9			86.6
WSW											2.5			95.0
W									10.0		3.3			86.7
WNW											12.1			84.8
NW									5.3		15.9			74.6
NNW		1.6				1.6			6.9		14.4			68.6
VARIABLE														
ALM	1.3	1.1							12.6		24.1			51.8
TOTAL			3			3			96		331			1688
% TOTAL	.3	.9	.1			.4			4.5		15.4			74.7

TOTAL NUMBER OF OBSERVATIONS 2,154

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U. S. Federal Building
Albany, N. Y.

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION	DERIVED FROM DAILY OBSERVATIONS
SNOWFALL*	DERIVED FROM DAILY OBSERVATIONS
SNOW DEPTH	DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.
2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations	From beginning of record thru 1945	Snow depth at 0800 LST
	Jan 46-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT
U. S. Navy and Weather Bureau Stations	From beginning of record thru Jun 52	Snow depth at 0030 GCT
	Jul 52-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT

* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956, and after Dec 1979.

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
PRECIPITATION
(FROM DAILY OBSERVATIONS)

STATION NAME ATSUOGI, JAPAN

71-63, 66-71

STATION

STATION NAME

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	0	02.05	04.10	6.15	8.20	10.25	12.30	14.35	16.40	18.45	20.50			MEAN	GREATEST	LEAST
SNO WFA	NONE	TRACE	0	0.4	0.5	1.4	2.3	3.4	4.5	5.6	6.7	7.8	8.9					
SNO W DPTH	NONE	TRACE		2	3	4	5	6	7	8	9	10	11					
JAN	7.0	10.0	0.0	4.1	2.2	4.1	3.4	3.4	1.1					14.0	558	1.76	3.93	.06
FEB	0.0	10.0	2.4	4.3	4.1	6.3	4.9	4.3	.9					27.2	578	2.14	5.09	.40
MAR	4.0	15.0	2.3	5.6	4.6	8.0	4.7	5.9	2.9	.2				35.3	527	3.91	6.75	1.77
APR	4.0	11.4	4.5	7.1	4.1	8.2	8.4	6.5	4.1	.4				43.3	510	5.17	8.16	1.58
MAY	0.0	0.9	2.1	5.7	4.1	7.9	7.7	7.5	5.0	.4				40.0	558	5.63	9.64	2.37
JUN	2.0	14.3	2.4	4.9	5.7	9.8	8.7	6.5	6.1	.9	.2			49.3	540	7.60	15.59	2.44
JUL	3.5	1.0	3.0	8.7	5.1	7.7	5.7	6.6	5.5	.8				43.3	527	6.08	12.01	.99
AUG	4.0	13.7	2.7	7.6	4.7	7.8	5.3	7.2	4.6	.4				39.1	527	5.43	12.60	2.25
SEP	0.0	16.1	3.7	7.6	5.7	8.0	8.7	5.7	5.9	1.4	.2			45.7	510	7.28	14.17	.41
OCT	4.0	10.1	2.9	6.5	4.9	9.3	5.5	8.9	3.8	.9				42.7	527	5.78	12.37	3.47
NOV	0.0	2.8	4.1	5.5	3.9	7.8	4.5	4.1	2.0	.2				32.2	510	3.00	6.41	.54
DEC	7.1	9.0	.9	4.6	1.9	2.8	2.7	3.2	1.3	.6				18.0	527	2.42	5.7	.29
ANNUAL	51.2	12.0	2.6	6.4	4.2	7.2	5.8	5.8	3.6	.5	.0			36.2	6329	56.20		

NAVWEASERVCOM

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOWFALL
(FROM DAILY OBSERVATIONS)

STATION ATSUOGI, JAPAN

1-63, 66-71

STATION

STATION NAME

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE		2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	.5	.7	.4	.7				.7						1.0	558	1.4	10.9	.7
FEB	.4	1.3	.7	2.2	.8	.6	.8	.6	.7	.2				5.3	508	3.5	13.6	TRACE
MAR	.5	2.2	.6	.6	.2	.2		.4	.2	.2				2.3	527	2.2	19.9	.7
APR	19.7	.5				.2								.2	510	.2	3.0	.7
MAY	100.3														558	.0	.0	.7
JUN	100.7														540	.0	.0	.7
JUL	100.0														527	.0	.0	.7
AUG	100.7														527	.7	.0	.7
SEP	100.7														510	.0	.0	.7
OCT	100.7														496	.7	.0	.7
NOV	99.4	.6													510	TRACE	TRACE	.7
DEC	99.3	1.7													527	TRACE	TRACE	.7
ANNUAL	55.9	.3	.1	.3	.7	.1	.1	.1	.7	.0				.8	6298	7.3		

NAVWEASERVCOM

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOW DEPTH
(FROM DAILY OBSERVATIONS)

STATION

ATF JGS, JAPAN

STATION NAME

12-63, 66-71

YEARS

PRECIP	NONE	TRACE	AMOUNTS (INCHES)												PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
			01	02	03	04	05	06	07	08	09	10	11	12			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.04	0.54	1.52	2.53	3.54	4.56	5.57	6.58	7.59	8.60	9.61	10.62	OVER 20.00				
SNOW- DEPTH	NONE	TRACE	2	1	4	6	7	12	24	36	48	60	120	OVER 120					
JAN	1.0	1.0	.4	.6	.2	.2	.2								2.3	527			
FEB	1.0		1.0	.6	.2	.4	.6								3.3	470			
MAR	1.0	.2	1.0	.5			.1								2.1	434			
APR	1.0	.2														420			
MAY	1.0															496			
JUN	1.0															480			
JUL	1.0															406			
AUG	1.0															406			
SEP	1.0															411			
OCT	1.0															415			
NOV	1.0															447			
DEC	1.0	.2														406			
ANNUAL	19.1	.2	.2	.1	.1	.1	.1								.1	5749			

NAVWEASERVCOM

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

PRECIPITATION
FROM DATA RECORD

STATION 155061, JAPAN 1-63, 66-71 YEARS
STATION NAME YEARS

24 HOUR AMOUNTS IN INCHES

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1			1.7	1.49	2.67	2.59	1.78	2.74	2.21	1.90	.71	.71	
2	.70	.50	2.39	1.49	1.07	3.42	2.67	.87	3.33	1.97	1.58	.30	3.47
3	.49	.54			2.64	2.89	2.47	.96	3.10	1.13	.19	.67	
4	.8	.50	.33	2.67	2.03	2.06	.84	1.10	3.63	.61	1.86	1.30	3.63
5	.62	1.13	1.09	.44	2.37	1.11	1.17	4.21	1.59	2.10	1.71	1.22	4.21
6	1.12	.84	2.04	1.71	1.97	1.44	1.51	1.68	2.21	4.07	.65	.27	4.07
7	.17	1.72	1.07	1.09	1.37	4.12	1.55	1.13	2.43	3.13	.44	1.74	4.12
8	.80	1.42	.67	.47	.47	.99	1.84	2.06	7.25	1.75	.95	1.40	7.25
9	1.01	.49	1.01	2.82	1.37	.86	.77	2.41	4.25	2.64	1.63	3.25	4.25
10	1.01	.17	1.14	1.78	1.47	1.33	2.16	1.76	.89	1.27	.81	.72	2.16
11	.39	.34	1.26	2.39	.61	4.68	.64	.87	2.81	1.44	1.39	.77	4.68
12	.34	.27	.47	1.75	1.27	2.04	2.00	.80	.30	1.33	2.60	2.97	2.97
13	.03	.56											
14	.62	1.97	.89	1.07	1.87	6.80	1.97	1.10	1.93	1.57	.37	.25	6.80
15	.07	.31	.87	1.47	1.11	1.07	.74	.86	1.20	1.34	.81	.64	1.47
16	.50	1.00	1.67	.97	1.87	2.35	3.21	3.00	.80	1.26	.67	3.00	3.21
17	1.07	.84	2.07	1.63	1.37	1.85	2.23	1.63	2.00	2.81	1.02	.67	2.81
18	1.63	.65	1.30	1.14	2.06	4.23	2.99	1.35	1.24	.77	1.56	1.12	4.23
19	.43	.64	1.24	1.63	.96	1.54							
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
MEAN	.71	.80	1.32	1.54	1.64	2.61	1.90	1.63	2.43	1.75	1.21	1.25	4.10
S.D.	.380	.497	.667	.666	.705	1.955	.936	.915	1.637	.919	.676	.959	1.843
TOTAL OBS	559	504	527	517	454	540	527	527	510	527	510	477	6329

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

PRECIPITATION
FROM DAILY OBSERVATIONS

STATION 111 ATSUGI, JAPAN STATION NAME 51-63, 66-71 YEARS

24 HOUR AMOUNTS IN INCHES
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1			.77 30	1.42 29									PRECIP DAYS
2													
3													
4													
5													
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98													
99													
100													
MEAN													
S D													
TOTAL OBS													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

EXTREME VALUES

SNOWFALL

(FROM DAILY FORECAST LOGS)

STATION

TSUGOI, JAPAN

51-63, 66-71

STATION NAME

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
51	TRACE	4.8	TRACE	.7	.7	.0	.7	.0	.0	.7	.0	TRACE	5.7
52	.7	8.7	5.0	.7	.7	.0	.7	.0	.7	.7	.0	TRACE	
53	5.8	5.7	5.7	.7	.7	.0	.7	.0	.0	.7	.0	.7	5.8
54	TRACE	TRACE	.6	.7	.7	.0	.7	.0	.7	.7	.0	.7	.6
55	6.7	2.0	TRACE	TRACE	.7	.0	.0	.0	.7	.7	TRACE	.7	
56	TRACE	.6	.7	.7	.7	.0	.7	.0	.7	.7	.0	.7	.6
57	TRACE	.7	.7	.0	.7	.7	.7	.0	.0	.7	.0	.7	.7
58	.7	1.7	.0	.7	.7	.0	.7	.0	.7	.7	.0	TRACE	5.3
59	.0	TRACE	.7	.7	.7	.0	.7	.0	.7	.7	.0	TRACE	TRACE
60	TRACE	TRACE	1.0	.7	.7	.0	.7	.0	.7	.7	.0	.7	1.0
61	TRACE	TRACE	TRACE	.7	.7	.0	.7	.0	.7	.7	TRACE	.7	TRACE
62	TRACE	TRACE											
63	TRACE	TRACE	TRACE	.7	.7	.0	.0	.0	.0	.7	.0	.7	TRACE
64	TRACE	5.1	TRACE	TRACE	.7	.0	.7	.0	.0	.0	.0	TRACE	5.1
65	TRACE	10.5	TRACE	.7	.7	.0	.7	.0	.7	.0	.0	.7	10.5
66	TRACE	8.8	11.6	3.0	.7	.0	.7	.0	.7	.0	.0	.7	11.6
67	TRACE	2.6	1.8	.7	.7	.0	.7	.0	.7	.7	.0	TRACE	2.6
68	1.0	.9	TRACE	.7	.7	.0							
69													
70													
71													
72													
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97													
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99													
00													
MEAN	1.2	2.56	1.52	.18	.00	.00	.00	.00	.00	.30	TRACE	TRACE	3.40
S.D.	2.172	3.141	3.043	.724	.407	.000	.400	.400	.400	.400	.000	.000	3.887
TOTAL OBS	554	504	527	510	454	540	527	527	410	494	510	527	6298

SMOS

EXTREME VALUES

3 MISUGI, JAPAN
STATION STATION NAME

51-63, 66-71

YEARS

24 HOUR AMOUNTS IN INCHES
/BASED ON LESS THAN FULL MONTHS/

[illegible]

SMOS

1

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

EXTREME VALUES

SNOW DEPTH
FROM DAILY OBSERVATIONS

STATION 1311 ATSUFI, JAPAN STATION NAME 62-63, 66-71 YEARS

DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1													
2													
3	TRACE	4											
4		9											
5													
6													
7													
8	TRACE	TRACE											1
9													
10													
11	TRACE	TRACE										TRACE	TRACE
12	TRACE												1
13													0
14													
15													
16													
17													
18													
19													
20													
21	TRACE												2
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
MEAN	1.1	1.4		TRACE	.7	.3	.7	.3	.0	.7	.0	TRACE	1.2
S.D.	2.619	2.899	2.107	.000	.000	.000	.000	.000	.000	.000	.000	.000	3.656
TOTAL OBS	527	479	434	420	496	480	496	496	480	465	480	496	5749

SMOS

EXTREME VALUES

3	STUGI, JAPAN	72-63, 66-71
STATION	STATION NAME	YEARS

[illegible]

SMOS

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in terms of degrees starting in January 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided.

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

- a. Three tables are prepared for all surface winds included, and for all years combined as follows:

- (1) Annual - all hours combined
- (2) By month - all hours combined
- (3) By month - by standard 3-hour groups

- b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

EXTREME VALUES

SURFACE WINDS
FROM DAILY OBSERVATIONS

STATION 15061, JAPAN
STATION NAME

51-63, 66-71
YEARS

DAILY PEAK GUSTS IN KNOTS

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1													
2	N 30NNW 37S	54	51	47NW 47NW 58S	37SSE 32SSW 37	57SSW 37SSW 46							
3	N 31SSW 31N	32S	47NW 46NW 30S	26S 47S	56NW 29NNW 55WSW 41	S 56							
4	N 30NNW 57E SE 45SSW 30S	37S	35S	33N 39S	37N 47SSW 41N 41	NNW 42							
5	N 36S 34SW 40SW 47	47	37N 48S	30NNE 29SSW 32	N 48								
6	SW 45N 35N 47SW 47	47	36SSW 31SSW 35SW 3AN	37N 38SW 45	SSW 49								
7	SW 51N 42NW 34SSW 47	47	39SSW 28S	68SSW 47N 61SW	33SSW 32SSW 41	S 68							
8	NW 52NW 31SSW 47	47	37N 28SSE 30SSE 47SSW 80N	36SSW 33SSW 34	SSW 87								
9	WSW 56NW 34S	47SSW 39SW 37SW	50SW 30SSW 35SW 2PN	37N 26N 38	S 50								
10	SW 70NNE 30NNE 71SE	47SSW 47S	38SSW 29SSW 26S	59NW 46SSW 34N 37	S 50								
11	N 20SSW 37SSW 19S	47	29SW 32SSW 35SSE 30SSW 35NW	26SSW 27SSW 11	S 42								
12	SW 30SSW 3N												
13	NW 29S	47SSE 37SSW 31SSW 37N	40S 35S	27SSE 67NE 25S	37NNE 19	SSF 67							
14	N 41SSW 38SSW 39SSW 51	47	31S	30SSE 32SSW 26N	40S 47SSW 29SW 37	SSW 51							
15	SW 30NNW 41SSW 47	47	37N 30SW	35SSW 26SSW 52NW 23NW	29SSW 32SSE 35	SSW 52							
16	SW 52N	32NW 47SSW 51	47	37S	49SW 36S	52NNE 31NE 28N	29SSW 36	S 52					
17	SE 46SSW 37NW 30SW	47SSW 37N	28SSW 32S	38S	32S	33NW 42SSW 34	SE 46						
18	NW 3036	2721	3921	4121	3721	30							
19													
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99													
100													
MEAN	36.2	35.8	39.9	42.8	39.4	36.3	33.4	30.6	40.5	30.4	30.9	36.1	35.1
S D	4.653	6.757	6.656	5.434	6.404	5.795	10.052	8.764	15.875	7.830	7.246	5.127	10.220
TOTAL OBS	26	679	895	479	527	517	896	496	473	465	408	527	6011

SMOS

EXTREME VALUES

STATION	STATION NAME	YEARS
101	OSU, JAPAN	61-63, 66-71

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1									SSW 1				WINDS DAYS
2									2				WINDS DAYS
3	SW 42			SSW 62									WINDS DAYS
4	13			10									WINDS DAYS
5													
6													
7													
8													
9													
10													
11													
12													
13													
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SMOS

2

NAVY WEATHER SERVICE
DEPARTMENT
ATLANTA, GA

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION _____ STATION NAME _____ YEAR _____
 CLASS _____
 CONDITION _____

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N		2.1	1.1	5.1	7.1							1.1	2.1
NNE	1.1	1.1	2.1	2.1								1.1	2.1
NE												1.1	2.1
ENE												1.1	2.1
E												1.1	2.1
ESE												1.1	2.1
SE												1.1	2.1
SSE												1.1	2.1
S												1.1	2.1
SSW												1.1	2.1
SW												1.1	2.1
WSW												1.1	2.1
W												1.1	2.1
WNW												1.1	2.1
NW	1.1	2.1										1.1	2.1
NNW	1.1	2.1	2.1									1.1	2.1
VARBL												1.1	2.1
CALM												1.1	2.1
	2.1	1.1	2.1	7.1	7.1							1.1	2.1

TOTAL NUMBER OF OBSERVATIONS 1.1

2005

2

NATIONAL WEATHER SERVICE
U.S. DEPARTMENT OF COMMERCE
WASHINGTON, D.C.

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NAME 7-3 YEARS 1941
 CLASS ALL MONTH NOV
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N		2.1		2.1								4.2	5.7
NNE		7.7	4.0	3.0								14.7	6.0
NE				0.7								0.7	4.2
ENE												1.0	3.5
E													
ESE													
SE													
SSE													
S		0.7		0.7								1.4	5.3
SSW												0.7	6.0
SW		1.0										1.0	5.0
WSW				0.7								0.7	10.0
W	1.0		0.7									1.7	3.7
WNW													
NW			0.7									0.7	4.0
NNW	7.0	2.1	0.7									9.8	7.0
VARIABLE													
CALM												1.0	
	10.1	3.8	1.7	7.7								100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 142

SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

ALL DATA
CLEAR

HOURS

CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0.1	1.0	1.0	7.0	0.4							2.5	6.4
NNE	0	0.4	0.5	1.0								1.0	5.5
NE	0	0	1.0	0.7								3.1	5.5
ENE	0	0	0.4									1.2	5.0
E	0	0										0	3.5
ESE													
SE													
SSE													
S	0											0.5	2.0
SSW			0	0.1								0.5	11.0
SW				1.0								1.0	12.3
WSW	0.1	0	0	0.0								2.3	5.2
W	0	0										1.2	4.3
WNW	0											1.7	3.7
NW	1.0	1.0	0									2.1	3.8
NNW	0.1	0	0.1	0	0.4							13.2	5.7
VARBL												15.0	
CALM													
	1.0	1.4	2.0	7.9	0.4							10.0	6.4

TOTAL NUMBER OF OBSERVATIONS

258

SMOS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

J A 3.

NOTES

ALL EARTH

FLAM

NOV 95 11 51

CONCLUSION

[illegible]

TOTAL NUMBER OF OBSERVATIONS

269

2002

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION	ALL WEATHER	DATE	17 JAN 1954	TIME	1700
STATION NAME	ALL WEATHER	YEARS		MONTH	
<div style="display: flex; justify-content: space-between;"> 17 17 </div>					
HOURS (LST)					
CONDITION					

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.3	2.6	2.5	.4							1.1	10.4
NNE	.	4.9	2.7	2.3								16.2	7.8
NE	1.	7.	2.4	1.1								9.	6.3
NNE	1.	2.	1.1	.4								7.6	5.3
E	.	1.	.4									3.7	4.5
ESE	1.	1.1										2.7	4.3
SE	.	2.3										2.6	4.3
SSE	1.	1.	.4									4.1	4.4
S	2.4	4.	.4	2.7	.4	.4						11.7	6.7
SSW	.	1.1	2.4	2.	.4							6.2	2.6
SW		1.1	.	2.3	.4							4.5	12.6
WSW	.		.	.4								1.5	1.6
W	.4		1.1									1.	6.5
WNW				.4								.4	13.7
NW		.		.4								.4	3.5
NNW	1.1	.4	1.	1.1	.4							6.2	9.3
VARBL													
CALM												5.3	
	14.3	27.2	24.7	23.3	2.7	.4						110.7	7.8

TOTAL NUMBER OF OBSERVATIONS 246

SMA03

NO. 1-1000 (REV. 1-1-60)
 U.S. DEPARTMENT OF COMMERCE
 BUREAU OF MARINE WEATHER SERVICE

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

STATION NAME

ALL WEATHER

CLAS

CONDITION

YEARS

JAN

MONTH

19

HOURS 11.57

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-53	≥54	%	MEAN WIND SPEED
N	.	2.7	6.	4.7	2.5	1.4						10.1	11.7
NNE	.	7.	6.	7.7	4.							14.7	5.0
NE	.	4.	4.	1.4								7.3	7.3
ENE	.	1.4	7.									4.5	6.5
E	.	4.										7.4	3.9
ESE	.	2.7	1.1									3.7	6.7
SE	.	1.1	1.1	4.								3.7	6.3
SSE	.	7.2	2.	4.								6.	5.1
S	.	4.5	1.1	1.2								17.6	8.1
SSW	.		1.1	1.4	1.1	7.						6.0	17.6
SW	.			1.4	3.2							5.7	14.7
WSW	.		1.1			7.						1.1	11.7
W	.											7.	9.5
WNW	.											7.	7.3
NW	.											7.	3.0
NNW	.		1.1	1.1								2.7	10.0
VARBL													
CALM												1.4	
	0.	2.	31.	10.7	7.7	2.5						100.5	7.6

TOTAL NUMBER OF OBSERVATIONS

374

SMOS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SMAOS

1
2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NAME: ST. JOHN STATION NAME: ST. JOHN YEARS: 1961 JAN. MONTH: 1961 DAY: 11 HOUR: 11.30

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.0	1.1	1.7	4.5	.4	.4						30.6	6.8
NNE	.0	.7	1.1	.9	.4							13.7	6.0
NE	.0	.0										1.2	4.0
ENE	.0	.0										1.7	2.8
E													
ESE	.4		.0									1.0	3.3
SE		.0										.0	6.0
SSE	.0	.0										1.0	3.5
S	.2	.4			.4							2.0	5.6
SSW	.0	.4		.0								1.0	8.0
SW		.0	1.4	2.0								4.1	10.2
WSW		.0	.6	.0								2.0	7.6
W		.0										.0	5.0
WNW	1.2	.4										1.6	2.5
NW	.7	1.7	.4		.4							7.4	4.8
NNW	.7	5.7	7.7			.1						13.1	6.5
VARBL													
CALM												5.6	
	22.0	2.0	25.4	7.0	1.6	.5						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 244

SMOS

17
2

NAVY WEATHER SERVICE
1000 HOURS
AUGUST 1954

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

JAN
MONTH
ALL
HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.	10.	1.	7.	0.	0.						1.4	7.4
NNE	0.	5.	0.	2.	0.							10.7	7.2
NE	0.	2.	0.	0.								6.0	6.2
ENE	0.	1.	0.	0.								0.3	5.1
E	0.	0.	0.									2.2	3.7
ESE	0.	0.	0.									1.	4.0
SE	0.	0.	0.	0.								1.	4.4
SSE	0.	0.	0.	0.								0.0	4.7
S	1.	1.	1.	1.	0.	0.						5.7	7.1
SSW	0.	0.	0.	1.	0.	0.						2.0	1.1
SW	0.	0.	0.	1.	0.							7.4	11.7
WSW	0.	0.	0.	0.	0.	0.						2.1	3.0
W	0.	0.	0.	0.								1.7	5.1
WNW	0.	0.	0.	0.								0.	4.7
NW	1.	0.	0.	0.	0.							2.0	4.3
NNW	0.	0.	0.	0.	0.	0.						0.1	6.6
VARBL													
CALM												0.1	
	1.7	26.2	27.6	13.8	2.1	0.6						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

1882

SMOS

2

NAVAL WEATHER SERVICE
WATER FRONT
WASHINGTON, D.C.

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

17-8

YEARS

FEB

MONTH

00

HOURS 11 57

ALL WEATHER

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	12.7	15.6	2.7								27.7	6.2
NNE		5.5	12.7	4.1								27.7	7.5
NE				5.5								3.3	6.5
ENE												1.1	3.0
E													
ESE													
SE													6.0
SSE													3.3
S													
SSW													3.5
SW												2.5	1.7
WSW													
W		1.1										4.1	3.0
WNW													
NW	1.0	1.1										3.3	3.3
NNW	1.0	5.5	1.1	1.1								15.7	6.2
VARBL												7.4	
CALM													
	11.0	34.4	31.1	8.8								100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

172

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
AT THE VESSEL

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1, JAPAN STATION NAME 17-R YEARS FEB MONTH 1957
ALL WEATHER CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	17.7	17.7	1.6								44.4	5.5
NNE	.7	4.0	6.1	2.4								16.2	6.9
NE	.7	.7	.7									3.2	5.5
ENE				.7								.7	13.0
E	.7											.7	2.0
ESE													
SE													
SSE													
S													
SSW	.7		.7									2.4	9.0
SW				1.6								2.4	12.3
WSW			.7									.7	10.0
W													
WNW		.7										.7	6.0
NW	.7	6.2	.7	.7								5.6	5.3
NNW	7.0	4.0	5.6									12.7	5.8
VARBL													
CALM												8.0	
	17.7	33.0	31.5	9.1								100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 174

SMOS

1
2

NAVY WEATHER SERVICE
DEPARTMENT
ATMOSPHERIC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 10101, JMA STATION NAME 10101 YEARS 1951-1952 REF 0000
ALL WEATHER OF 06
 CLASS 11.5
 CONDITION

SPEED (KTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.0	2.3	15.0	5.6								57.0	5.1
NNE	2.0	6.0	2.0	2.4	.4							14.3	6.4
NE	1.0		1.0	.4								3.2	6.1
ENE													
E	.0											.0	2.0
ESE													
SE	.0											.4	1.0
SSE													
S	.0	.0	.0	.4								2.0	7.5
SSW				.0		.4						1.2	15.0
SW				.0			.4					1.2	18.7
WSW	.0	.4										.6	4.0
W		.0										.4	4.0
WNW		.0										.4	4.0
NW	1.2	1.0	.4									2.4	4.4
NNW	2.0	4.0	2.4	.4								10.0	5.7
VARB													
CALM												5.6	
	17.0	4.0	21.0	17.0	.4	.4	.4					10.0	5.9

TOTAL NUMBER OF OBSERVATIONS 211

SMOS

2

NAVAL WEATHER SERVICE
DEPARTMENT OF THE NAVY
WASHINGTON, D.C.

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: _____ STATION NAME: _____ YEAR: _____ MONTH: _____
 ALL WEATHER CLASS: _____ HOURS: _____
 CONDITION: _____

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	1.3	11.0	10.7	11.4	.8							46.5	8.4
NNE				2.6								18.1	6.9
NE		7.1		.4								5.3	5.8
ENE												1.6	3.0
E												.4	2.0
ESE												.4	2.0
SE												.4	3.0
SSE												.5	15.0
S												2.7	3.3
SSW												1.2	6.3
SW				.4								2.1	9.0
WSW													
W				.4								.7	6.5
WNW												.7	4.0
NW		1.0	1.0									3.7	6.2
NNW		4.0	2.0	1.2								8.6	7.1
VARBL												6.5	
CALM													
	1.0	2.0	32.0	17.7	.8	.4						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 243

SMOS

2

NAVY WEATHER SERVICE
JULY 1961

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: JULES STATION YEARS: 1951-1960
ALL WEATHER CLIMATE NORTH 10
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	3.7	7.5	8.7	.8							51.7	9.6
NNE	.1	5.7	5.7	6.3	.4							25.2	8.4
NE	.1	4.7	1.7	1.3								7.6	6.8
ENE	1.1	2.7	1.7									5.5	5.5
E	.1	1.7	.4									4.7	4.1
ESE	.1	1.7										2.7	4.2
SE	1.1	.4										1.7	2.7
SSE	.1	.1	1.7									2.7	6.0
S	.1	3.4	7.6	.8								13.7	7.1
SSW	.1	2.1	1.7	2.1	2.1	.4						8.4	11.2
SW		.1		.7	.4							2.1	11.7
WSW		.1		.7								1.7	10.0
W			.1									.4	15.0
WNW		.1		.4								.1	9.0
NW		.1	.1	.1								1.7	10.5
NNW		.1	.1	1.7	.4							2.7	12.2
VARBL													
CALM												2.7	
	11.1	27.6	27.6	22.7	4.7	.4						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS 238

SMOS

10
2

MASSACHUSETTS
NANTUCKET
WIND RECORD

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NAME ALL FATHER YEARS 1951-52

CLAS 1

COBBITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	1.2	.	4.1	2.							14.5	10.9
NNE	.	1.	4.3	2.4	.4							8.9	9.5
NE	.	2.	2.4	1.7								5.5	8.3
NNE	.	1.	2.4									4.2	6.2
E	.	2.	1.7	.4								5.3	6.7
ESE	.2	2.	1.5									4.5	5.2
SE	.	2.	2.	.4								5.3	7.1
SSE	.	2.	2.									6.1	6.1
S	.1	.1	11.4	4.1	1.2							22.2	8.7
SSW	.	.	3.7	2.7	.4	.						7.7	11.3
SW	.	.	.	1.2	1.2							3.7	13.6
WSW	.	.	.		.4							1.2	10.5
W	.	.	.4									1.2	5.3
WNW	.	.	.									.4	1.0
NW	.	.	.	.4	.4							1.2	13.5
NNW	.	.	1.2	1.2	.4							3.7	10.6
VARS												5.5	
CALM													
	1.3	22.2	42.7	17.9	6.5	.3						100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 246

SMOS

1
2

U.S. AIR FORCE
WIND RECORDING
STATION

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME 13-00 YEARS 1950 MONTH 1 HOURS 12

STATION ALL WEATHER CLASS 1 CONDITION 1

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-53	≥56	%	MEAN WIND SPEED
N	.	1.0	2.0	2.0								24.4	3.9
NNE	.	2.0	5.0	5.0								14.1	4.4
NNE	.	1.0	2.0	1.0								6.0	7.9
ENE	.	1.0	2.0									3.1	4.6
E	.	1.0	1.0									4.0	5.2
ESE	.	.	.									1.0	5.5
SE	1.1	1.1										7.3	3.2
SSE	.	1.1										3.1	3.1
S	.	1.0	1.0	1.0								11.0	5.3
SSW	.	2.0	1.0	1.1								6.0	5.9
SW	1.0	1.0	.	2.0		0.4						6.0	8.7
WSW	.	.	.	1.0								2.3	10.8
W	.	.	.	.								0.4	6.0
WNW	.	1.0		0.4								1.0	5.8
NW	.	.	.	.								1.0	5.2
NNW	.	.	.	1.1	0.4	0.4						3.4	11.1
VARB													
CALM												5.0	
	14.0	29.0	24.0	23.3	0.4	.						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 262

SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	FEET
	ALL BATTER		11
	CLASS		HOURS - L S Y
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	11.1	11.2	1.3	.4							10.1	2.3
NNE	1.7	1.1	2.7	3.1	.4							5.1	7.6
NE		.	.	.4								3.1	6.7
ENE	.	2.7										3.1	4.9
E		.										.4	5.0
ESE			.									.4	3.7
SE													
SSE	1.											1.	1.3
S	.			.3								1.3	3.7
SSW	.	.4	.4	.3	.4		.4					3.1	12.7
SW	.	.3	2.3	.4	.4							5.7	6.9
WSW		.	.4	.3								2.2	5.8
W	.		.3									1.7	3.3
WNW	.4	.	.4									1.3	4.5
NW	1.4	1.3		.4								3.1	4.4
NNW	.5	4.5	1.3	.4								11.2	4.9
VARBL													
CALM												5.4	
	1.6	31.7	27.2	17.9	1.8		.4					100.3	7.0

TOTAL NUMBER OF OBSERVATIONS	224
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SMAOS

F
2

STATION NAME
STATION NUMBER
DATE

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

ALL WEATHER
CLASS

PER
MONTH

ALL
MONTHS 11 5 7

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	11.0	12.0	7.0	0.0							24.0	7.7
NNE	1.0	0.0	0.0	0.0	0.0							10.0	7.6
NE	0.0	1.0	0.0	0.0	0.0							0.0	7.1
ENE	0.0	1.0	0.0	0.0	0.0							2.0	6.3
E	0.0	0.0	0.0	0.0	0.0							0.0	5.1
ESE	0.0	0.0	0.0	0.0	0.0							0.0	5.0
SE	0.0	0.0	0.0	0.0	0.0							0.0	5.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0						0.0	5.4
S	1.0	1.0	0.0	0.0	0.0	0.0						0.0	7.3
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0					0.0	7.9
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0	7.6
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0	7.5
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0	4.6
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0	5.8
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0	6.0
NNW	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0	6.9
VARB												0.0	
CALM												0.0	
	1.0	30.0	30.0	17.0	2.0	0.0	0.0					10.0	7.0

TOTAL NUMBER OF OBSERVATIONS

1710

8805

NAVAL WEATHER SERVICE
 WEA. STATION
 WASHINGTON, D.C.

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME 7-0 YEARS 10

ALL WEATHER CLASS 10

CONDITION 10

STATION 10 NORTH 10

HOURLY 10

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	10.0	15.0	14.3	4.5	0.0							45.1	6.3
NNE	0.0	0.0	0.0	1.0								15.0	7.0
NE	0.0	0.0	0.0	0.0								0.0	8.1
NNE	0.0	1.0										0.3	4.7
E	0.0	0.0										0.0	4.0
ESE	0.0	0.0										1.0	3.0
SE	0.0	0.0										1.0	10.0
SSE	0.0	0.0										0.0	0.0
S	0.0	0.0	1.0									4.5	4.8
SSW	0.0	0.0	0.0	1.0								0.3	0.7
SW	0.0	0.0	1.0	0.0								3.0	14.4
WSW	0.0	0.0	0.0	0.0								0.0	2.0
W	0.0	0.0	0.0	0.0								1.0	0.5
WNW	0.0	1.0										0.3	4.0
NW	0.0	0.0										0.0	0.0
NNW	1.0	0.0	1.0	1.0								0.3	0.0
VARBL												0.0	0.0
CALM												0.0	0.0
	1.0	33.1	20.3	11.3	2.3	0.0						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 173

2

NAVAL WEATHER SERVICE
JULY 1964

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: STATION NAME YEARS: 1964

CLASS: CLAS

CONDITION: CLAS

STATION: STATION NORTH: STATION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.0	13.7	4.6	.7							47.5	7.3
NNE	.0	5.0	7.0	2.0								19.4	7.3
NE	.0	.0	2.0	.7								5.3	7.1
ENE	.0	.0										1.4	3.5
E	.7											.7	1.0
ESE													
SE					.7							.7	7.0
SSE													
S	.0	.7	.7		.7							3.0	6.7
SSW		1.0		.7		.7						2.0	12.5
SW													
WSW													
W													
WNW													
NW		.0										.7	4.0
NNW	.0	7.0	3.0	1.4								12.2	5.9
VARBL													
CALM												5.0	
	17.0	34.5	20.0	14.4	2.2	.7						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 170

SMOS

IV
2

NAVAL WEATHER SERVICE
METEOROLOGICAL
OFFICE

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1. JAPAN STATION NAME 11- YEAR 1951 MONTH 11
CLASS ALL HOURS 11-17
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0.5	13.0	15.0	2.7	0.7	0.7						2.7	4.2
NNE	0.5	2.1	4.1	0.7								5.2	6.1
NE	0.5	1.0	0.5									4.1	4.6
ENE	1.0											2.1	4.5
E		0.5										0.5	4.7
ESE		0.5										0.5	3.0
SE	0.5					0.7						0.7	12.5
SSE		0.5										0.5	3.0
S												0.5	23.6
SSW		0.5		1.0	0.7							2.5	13.1
SW		0.5	0.5									1.0	5.7
WSW	0.5					0.7						0.7	17.5
W	0.5		0.5									0.7	6.0
WNW	0.5	0.5		0.5								1.0	7.3
NW	1.0	2.1		0.5								4.1	4.6
NNW	0.5	4.1	2.7	1.7								11.2	11.2
VARB													
CALM												0.5	
	1.9	32.0	25.0	13.7	1.0	1.0		0.7				10.2	6.4

TOTAL NUMBER OF OBSERVATIONS 221

SMOS

2

NAVAL WEATHER SERVICE
FLEET WEATHER
AT WASHINGTON

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NO. 1074 STATION NAME ALL LEATHER CLASS YEARS MONTH 5 HOURS 11 17

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.5	21.5	.9	1.4							39.6	9.1
NNE	1.1	.5	5.4	5.0								21.2	5.1
NE	1.1	.5	.5	1.4								5.5	6.2
ENE	1.1	.5	.5	.4								3.1	5.3
E	.1	1.1	.4									2.5	3.5
ESE	.7		.1									1.1	3.7
SE	.1	.4										1.4	2.3
SSE	.1	.4	.4									1.1	3.6
S	.1	.4	.7		1.1							3.2	9.8
SSW	.1	.4	1.1	.4		.7						2.9	11.9
SW				.4	.4							.7	14.5
WSW			.1	.4	.4							.7	13.0
W	.1			.4								1.1	5.0
WNW					.4							.4	2.0
NW		.1										.4	6.0
NNW	.1	.7	1.1	2.2	.7							5.4	10.6
VARBL													
CALM												5.1	
	12.1	12.2	38.1	19.1	4.3	.7						100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 275

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
AGNESVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: ATSUMI, JAPAN YEARS: 77-82 NAME: MAI
STATION NAME: ATSUMI, JAPAN CLASS: ALL WEATHER MONTH: 10
CONDITION: ALL WEATHER HOURS: 11.57

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	3.7	6.5	5.6	1.5	.7						21.0	10.3
NNE	.4	5.6	7.1	6.0	.7							19.9	9.2
NE	.4	1.4	2.0	.7								7.1	6.9
ENE	.4	3.4	1.0									6.0	5.6
E	1.1	3.7	1.1									6.0	5.3
ESE	.4	.7	1.0									2.6	6.3
SE	.4	1.7	.7									2.4	5.6
SSE	.4	3.4		.4								4.1	5.5
S	1.1	3.7	3.7	3.0	.7	1.1						13.5	9.6
SSW	.4	1.1	1.5	3.0	.7	.4						7.1	11.9
SW		.4		.4	.4	.4		.4				2.7	16.2
WSW					.4	.4						1.1	12.0
W			.4									.4	5.0
WNW	.4											.4	3.0
NW	.4				.4							.7	10.5
NNW	.4		.4		.4	.4						5.2	13.2
VARBL												7.0	
CALM													
	.2	30.7	30.0	17.1	5.2	3.4		.4				100.0	9.7

TOTAL NUMBER OF OBSERVATIONS 267

SMOS

E
2

NAVAL WEATHER SERVICE
STATION REPORT
WIND RECORD

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: USS LST-1165 YEARS: 1965-1966

CLASS: ALL WEATHER

MONTH: 1

NUMBER OF DAYS: 1

CONDITION: _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.6	5.6	4.3	.7							13.3	9.6
NNE	.7	2.2	2.6	2.5	.7	.4						8.6	10.6
NE	.7	2.6	1.4	1.4								6.1	6.8
ENE	.7	1.1	1.6									3.6	6.5
E	.7	1.1	3.7									5.5	6.5
ESE	.7	2.6	2.6	.4								5.6	6.6
SE	1.4	1.1	2.6									5.6	5.8
SSE	.4	2.6	2.6	1.1								6.5	7.9
S	.7	3.2	7.6	2.4	1.8	.4						23.6	10.8
SSW	.7	1.1	4.3	4.6	.7	.7						11.2	11.5
SW		1.1	.7	.7	.7	1.1						4.3	14.2
WSW	.7	.7	1.1	.7								2.9	7.0
W			.7									.4	10.0
WNW	.7											.4	3.0
NW	.7			.7	.4							1.4	12.3
NNW	.7	.7	.4	.7	.4							2.5	9.4
VARIABLE													
CALM												.7	
	1.4	21.6	37.1	25.9	5.4	2.5						100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 279

SMOS

2

NAVAL WEATHER SERVICE
DEPARTMENT
ARMY AIR CORPS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ST. LOUIS, MO YEARS: 73-74 MONTH: 1
 CLASS: ALL WEATHER
 CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	4.2	5.6	7.8	.7							15.5	9.1
NNE	.1	1.7	7.5	7.5	.7							9.8	9.9
NE	.1	2.4	1.4	1.7	.3							6.3	8.3
ENE	.1	1.4	1.7	.7								4.2	6.9
E		.7	.7	.7								4.5	6.0
ESE	1.1	7.1	.7									5.2	4.9
SE	.1	.7										1.4	4.3
SSE	.1	.7	.7									1.7	4.6
S	7.1	7.8	7.7	1.7	1.1	.7						19.9	7.7
SSW	.1	4.9	4.2	1.7	.7							11.5	7.9
SW	.1	2.1	2.1	1.4								8.4	7.2
WSW	1.1	.7	1.1	.7								3.9	6.7
W		.1		.7								.7	5.5
WNW		.1		.7								.7	8.5
NW		.1										.7	4.0
NNW	.1	1.1	1.7	.7								4.2	7.5
VARBL													
CALM												2.1	
	1.1	34.5	31.4	17.1	7.8	.3						10.0	7.6

TOTAL NUMBER OF OBSERVATIONS 297

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME 77-21 YEARS 440
 CLASS ALL WEATHER MONTH 0000
 CONDITION 21
 HOURS 1000

SPEED (KMTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 -	≥ 56	%	MEAN WIND SPEED
N	2.2	7.4	13.4	3.7	1.1							28.3	4.1
NNE	1.1	7.4	4.7	5.2								14.5	3.5
NE		1.1	3.7	.7	.4							5.2	8.6
ENE	1.1	1.1	1.1									4.7	5.9
E	1.1	2.2	2.2									5.2	5.4
ESE	1.1	1.1										3.0	3.5
SE	.4	2.2	.4									7.0	4.7
SSE	.7	.7										1.1	3.3
S	.4	1.1	2.2	.4	.4							5.2	7.7
SSW	1.1	1.1	1.1	.7	.4							5.6	7.4
SW	.4	1.5	1.1	.4		.4						3.7	8.7
WSW	.7	1.1	.7	.4								3.0	5.9
W	.4	.7	.4									1.1	4.5
WNW	.4		.4									.7	5.0
NW		.4	.4	.4								1.1	5.0
NNW	1.1	3.7	1.1	.7	.4							7.4	6.7
VARB													
CALM												5.6	
	1.1	30.2	34.2	12.6	2.6	.4						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 269

SMOS

10

2

1942-1943

176

NAVY WEATHER SERVICE
DETACHMENT
ASHVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHVILLE, JAPAN STATION NAME 73-01 YEARS 1942 MONTH ALL
 CLASS ALL
 CONDITION ALL

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.0	.0	12.3	0.1	.9	.0						31.1	8.1
NNE	1.0	3.6	5.6	3.6	.3	.1						14.4	4.4
NE	.0	2.3	2.0	1.0	.1							6.2	7.0
ENE	.0	1.7	1.2	.0								3.7	5.7
E	.0	1.0	1.1	.1								3.6	5.4
ESE	.0	1.0	.0	.1								2.7	5.3
SE	.0	.0	.0		.1	.1						2.2	5.6
SSE	.0	1.1	.0	.0								2.3	5.8
S	.0	2.4	3.7	2.1	.6	.3		.1				9.0	9.3
SSW	.0	1.0	1.0	1.7	.4	.3						6.2	10.2
SW	.0	.0	.0	.0	.3	.3		.1				3.2	10.4
WSW	.0	.0	.6	.3	.1	.1						1.6	7.6
W	.0	.0	.0	.2								.4	6.5
WNW	.0	.0	.1	.1	.1							.7	6.7
NW	.4	.0	.1	.7	.1							1.3	6.8
NNW	1.2	2.0	1.0	1.1	.3	.1						6.2	7.4
VAESL													
CALM												4.0	
	17.0	12.0	32.2	17.2	3.3	1.3		.1				100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 1942

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, JAPAN STATION NAME 17-2 YEARS 1961
 ALL WEATHER CLASS 1
 CONDITION 1

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	1.4	13.7	17.1	4.3								26.5	7.1
NNE	.7	5.0	3.4	7.6								13.7	7.6
NE	1.4	3.4	2.7									7.5	5.4
ENE	.7	1.4										2.7	4.7
E		1.4	.7									2.7	5.4
ESE													
SE	.7											.7	1.0
SSE	.7	.7		.7								2.7	7.7
S	7.2	3.6	2.2	2.0	.7							11.6	7.4
SSW	1.4	2.7	2.7	3.6	.7	.7	.7					12.2	11.0
SW	.7	1.4	1.4	.7								4.3	7.5
WSW		.7										.7	6.0
W													
WWW		.7										.7	4.0
NW				.7								.7	12.0
NNW		.2		.7		.7						3.6	10.2
VARIABLE													
CALM												3.6	
	17.1	37.1	22.3	17.3	1.4	1.4	.7					170.0	6.9

TOTAL NUMBER OF OBSERVATIONS 139

SMOS

10

2

NAVAL WEATHER SERVICE
JAGGERS
ATLANTA, GA

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NO. 1000 STATION NAME 17-0 YEARS 1970
CLASS ALL WEATHER MONTH 04
CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N		17.0	1.0	3.3								35.0	5.8
NNE			4.0	2.6								14.0	7.0
NNE		1.0	2.0	0.7								4.0	7.9
NNE												0.7	4.0
E												0.7	2.0
ESE												1.0	3.5
SE												0.7	2.0
SSE				0.7								2.0	6.0
S	1.0	4.0	0.7	0.7	2.0							9.0	3.4
SSW			0.7	0.7	0.7	2.6						7.0	14.6
SW			1.0									2.0	5.0
WSW												0.7	6.0
W												0.7	2.0
WNW													
NW		1.0										1.0	4.5
NNW		7.3	2.6	0.7								3.0	5.8
VARB												7.0	
CALM													
	1.0	34.4	23.0	10.6	2.6	2.6						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 151

SMOS

2

NAVY WEATHER SERVICE
DETACHMENT
ASHTABUL, OH

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ST. 1, JARA STATION NAME 12-9 YEARS APR
 ALL WEATHER CLIM 06
 MONTH 06
 HOURS 11 57
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	16.0	14.0	3.2		.4						39.0	6.5
NNE	.0	3.4	4.7	1.8	.4							12.5	7.5
NE	.7	1.1	.7	.7								3.2	6.6
ENE	1.1		.7	.4								2.2	5.7
E	1.1											1.1	2.3
ESE	1.1											1.1	3.0
SE													
SSE	.4				.7							1.4	10.3
S	.4	1.1	2.7	1.1	.7							5.4	9.5
SSW	.4	.4	1.1	1.1	.7	.4	.4	.4				4.7	15.7
SW	.4		.7	.4	.4	.4						2.2	12.7
WSW													
W			.4									.4	3.0
WNW	.4	.4	.4									1.1	5.7
NW	.0	1.4										4.0	3.0
NNW	.2	4.7	1.4	.7	.7							10.0	5.7
VARB.													
CALM												9.4	
	20.1	24.5	26.7	9.4	3.6	1.1	.4	.4				100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 278

SMOS



2

NAVAL WEATHER SERVICE
STATION REPORT
WINDS, SURFACEPERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1010 STATION NAME 1010 YEARS 1951 ADP 1010
 MONTH 10
 CLASS ALL WEATHER
 CONDITION
 HOURS 151

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.0	0.0	0.0	1.1	0.4						25.4	4.6
NNE	0.4	2.7	4.0	4.0	1.1							17.3	8.5
NE	0.3	3.0	7.0	1.0								10.0	7.0
ENE	0.1	3.4	0.0									0.3	5.1
E	0.0	1.0	0.4	0.4								0.3	4.4
ESE	0.0	0.0	0.0									1.0	3.8
SE	0.0	0.0	0.0									1.0	5.0
SSE	1.1	0.0	0.0	0.4								2.7	6.1
S	0.0	1.1	1.0	1.0	1.1	1.1						8.0	12.2
SSW	1.0	1.0	1.0	3.0	1.5	0.4						11.0	10.0
SW	0.0	0.4		1.1		0.4	0.4					3.0	12.4
WSW													
W	0.0	0.4	0.4									1.1	4.7
WNW			0.0									0.0	7.0
NW	0.0					0.4						1.1	9.3
NNW	0.0	0.4	1.1	0.4								2.7	7.3
VARBL													
CALM												3.0	
	10.0	20.0	25.4	23.5	4.9	2.7	0.4					100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 254

SMOS

NAVY WEATHER SERVICE
ATTACHMENT
ASHTABUL, OH

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

ASHTABUL, OH

STATION NAME

72-000

YEARS

APR

MONTH

ALL WEATHER

CLASS

12

HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			3.4	6.7	.7	.4						11.6	12.3
NNE	.7	2.0	2.0	3.7	.4							9.7	9.1
NE	1.0	1.0	1.4									6.4	6.1
ENE	.7	.7	2.2	1.2								5.2	6.7
E	1.1	1.4	2.7									4.9	5.8
ESE		1.1	1.0									3.0	6.6
SE	1.1	.7		.4								2.2	5.3
SSE	.4	2.2	2.6	1.1	.7							7.1	9.2
S	.7	4.0	1.1	2.7	3.0	1.9						20.3	11.4
SSW	.4	1.0	2.2	3.4	1.1	3.0	.7					12.7	14.9
SW			.4	1.1	.7	1.1						3.4	18.4
WSW		.4	.4									.7	7.0
W	.7											.4	3.0
WNW	.4											.4	3.0
NW		.7		.4								.7	7.5
NNW				.4								.4	12.0
VARBL													
CALM												.7	
	1.1	1.4	31.1	29.0	5.7	1.4	.7					100.0	10.6

TOTAL NUMBER OF OBSERVATIONS

267

SMOS

10
2

NAVAL WEATHER SERVICE
STATION REPORT
WINDS, SURFACE

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: STATION NAME YEARS: 1950-1951 AP: 10
STATION NAME: STATION NAME YEARS: 1950-1951 AP: 10
ALL WEATHER
CLAS
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.0	3.7	6.0	.4							12.7	11.0
NNE	.0	.0	2.0	2.0	.4							7.3	9.9
NE	.0	.0	1.1	1.1								2.5	3.6
ENE	.0	.0	1.1	.0								2.0	5.8
E	.0	.0	.0	1.1								5.5	9.3
ESE	.0	.0	1.0	.4								2.0	7.4
SE	.0	1.1	.0									1.0	6.8
SSE	.0	1.0	1.0			.4						4.0	3.1
S	.0	.4	.7	18.5	5.1	1.5						34.2	13.4
SSW	.0	1.0	2.0	3.1	2.0	1.5	1.8					10.5	14.6
SW	.0	1.1	.0	.4	1.1	.7	.4					4.4	15.6
WSW	.0	.7		.4								1.0	7.3
W	.0												
WNW	.0			.4								.7	8.5
NW	.0												
NNW	.0			1.1								1.1	14.0
VARS													
CALM													
	1.0	1.0	27.3	42.0	9.8	4.0	2.2					100.0	12.1

TOTAL NUMBER OF OBSERVATIONS 275

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ATRIUM, JAMA

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ATRIUM, JAMA STATION NAME: ATRIUM, JAMA YEARS: 1954-1955
CLASS: ALL WEATHER
CONDITION: ALL WEATHER
APR: 1954
MAY: 1954
JUN: 1954
JUL: 1954
AUG: 1954
SEP: 1954
OCT: 1954
NOV: 1954
DEC: 1954
TOTAL: 1954

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	2.0	3.0	5.6	1.4	0.7						13.0	11.2
NNE		0	3.0	2.4								5.4	3.7
NE	0	0	0.7	1.0								2.0	3.4
ENE	0	1.0	0.7	1.0								3.1	7.3
E	0	1.4	3.1	0.3								4.8	7.0
ESE	0	0.7	1.4	0.3								2.4	7.3
SE	0	0	1.0	0.7								1.7	7.8
SSE	0	0.7	0.3	0.7			0.7					2.0	9.0
S	0	0.7	13.0	11.1	2.0	0.7	0.7					34.5	10.6
SSW	1.4	2.1	3.0	3.0	2.1	1.4	0.3					14.3	12.6
SW	0	1.4	1.0	2.4	1.4							6.6	11.6
WSW	0	0	0.7	1.0								2.4	7.1
W	0	0	0									0.5	6.5
WNW	0	0	0	0.7								1.4	6.5
NW													
NNW		0		1.0	0.7							1.7	12.6
VARBL													
CALM												1.0	
	0.7	12.0	31.0	31.4	4.0	2.1	1.0					10.0	10.1

TOTAL NUMBER OF OBSERVATIONS 27

SMOS

10
2

Form No. 1, Rev. 1-64
U.S. GOVERNMENT PRINTING OFFICE
WASHINGTON, D.C. 20540

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: LA JOLLA STATION NUMBER: 111 YEAR: 1964
CLASS: 111 MONTH: 1
HOURS: 1 DAY: 1
CONDITION:

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	2.0	4.1	5.7	1.5	.4						17.0	10.0
NNE	1.0	2.3	2.3	2.3								8.4	7.8
NE	.1		1.0	1.0	.4							4.0	4.0
ENE	.1	1.0	1.0	.4								3.0	5.4
E	.3	1.0	1.0									5.0	4.0
ESE													
SE	.1	.1	.1									1.0	4.0
SSE					.4							2.0	6.0
S	.3	.1	4.0	4.7		.1						10.0	8.0
SSW	1.0	2.0	1.0	4.0	1.0	1.1	.1					13.0	12.1
SW	.1	2.0	1.0	.4	.4							5.0	8.1
WSW					.4							1.0	4.0
W		.1										.4	4.0
WNW	.1	1.1										1.0	4.0
NW	.1											1.0	4.0
NNW	.1	.4	2.7	1.0	.4							5.1	4.8
VARBL													
CALM												6.0	
	1.0	24.3	26.2	17.4	4.9	2.3	.4					10.0	7.1

TOTAL NUMBER OF OBSERVATIONS: 213

SMOS

NAVAL WEATHER SERVICE
 WASHINGTON, D. C.
 FORM 10-62

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME STATION NAME STATION SIZE STATION SIZE YEARS YEARS
 ALL WEATHER CLIM
 ADP
 NORTH
 ALL
 HOURS 11.5 T

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	22.0	3.6
NNE	1	0	0	0	0	0	0	0	0	0	0	10.0	8.3
NE	0	1	1	1	1	0	0	0	0	0	0	5.1	7.4
ENE	0	1	1	0	0	0	0	0	0	0	0	3.3	6.6
E	1	1	1	0	0	0	0	0	0	0	0	7.7	6.7
ESE	0	0	0	1	0	0	0	0	0	0	0	1.0	6.0
SE	0	0	0	0	0	0	0	0	0	0	0	1.0	5.6
SSE	0	0	0	0	0	0	0	0	0	0	0	3.2	5.4
S	0	0	0	0	0	0	0	0	0	0	0	0.0	11.0
SSW	1	1	0	0	0	0	0	0	0	0	0	12.4	13.2
SW	0	0	0	0	0	0	0	0	0	0	0	4.1	11.9
WSW	0	0	0	0	0	0	0	0	0	0	0	1.0	6.1
W	0	0	0	0	0	0	0	0	0	0	0	0	4.7
WNW	0	0	0	0	0	0	0	0	0	0	0	0	5.6
NW	0	0	0	0	0	0	0	0	0	0	0	1.3	4.5
NNW	0	1	0	0	0	0	0	0	0	0	0	4.2	7.7
VARBL												4.4	
CALM													
	1	22	27	24	5	2	0	0	0	0	0	100	2.9

TOTAL NUMBER OF OBSERVATIONS 1024

SMOS

2

NATIONAL WEATHER SERVICE
JULIAH GLEN
ALBUQUERQUE, NM

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 2. JSPA STATION NAME 17-30 YEARS 1951 MONTH NOV
 CLASS ALL WEATHER HOUR 00
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.0	5.0	9.9	2.6								23.0	6.5
NNE	0.0	1.0	7.0									8.6	5.7
NE	0.0	1.0	0.0									2.0	5.5
ENE	0.0	1.0	0.0									0.0	0.0
E	0.0	1.0	0.0									4.0	3.7
ESE	0.0	0.0										0.0	1.0
SE	0.0	0.0										0.0	2.0
SSE	0.0	1.0		1.0								2.0	6.5
S	0.0	3.0	7.0	5.0								15.0	8.5
SSW	1.0	2.0	2.0	0.0	0.0							6.0	7.4
SW	0.0	2.0										4.0	3.9
WSW	0.0											0.0	0.0
W	0.0											0.0	1.0
WNW	0.0	2.0										2.0	4.5
NW	0.0			0.0								1.0	7.5
NNW	1.0	2.0		0.0	1.0							5.0	8.3
VABM												19.0	
CALM													
	22.0	23.0	21.1	11.0	2.0							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 152

8805

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, JAPAN STATION NAME 12-50 YEARS MAY
 CLASS ALL WEATHER MONTH 1956
 CONDITION HOUSE 11.5 T

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	11.0	16.0	7.4	3.0	1.1							40.4	5.8
NNE	4.0	7.0	7.2	.4	.4							12.0	5.6
NE	1.1	2.1	.7									3.9	4.4
ENE													
E													
ESE	.7											.4	1.0
SE		.4										.4	5.0
SSE		.7	.4	.4								1.1	8.0
S	1.1	2.0	1.1	1.4	1.1							7.4	8.6
SSW		.7	.7	2.1	.4	.4						4.7	12.8
SW		.4	.7			.4						1.4	11.3
WSW	.7	.7	.4									1.8	3.6
W	.7			.4								1.1	5.3
WNW	1.0	.4										2.1	2.5
NW	1.1	.4	.7	.4								2.0	6.1
NNW	1.2	4.0	1.1	.4								9.1	4.5
VARIABLE													
CALM												11.0	
	20.3	33.3	16.1	8.8	2.8	.7						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 285

BROS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHBURN, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHBURN, NC STATION NAME: ASHBURN, NC YEARS: 1951-1952

ALL WEATHER
CLASS
CONDITION

NAVY
MOORE, L. S. Y.

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	5.4	6.7	5.1	4.3	.4							18.8	7.6
NNE	2.7	2.7	5.1	3.5								13.7	8.0
NE	1.2	3.5	2.7	.4								7.8	6.2
ENE		2.7	.4	.4								3.1	6.4
E		1.2										1.2	5.0
ESE	.4	.4	.4									1.2	4.8
SE	1.2	.4	.4									2.0	3.9
SSE	1.2	.4	.4									2.7	3.7
S	4.3	4.7	8.2	4.3	2.7							23.5	6.5
SSW	.4	1.6	2.7	3.5	.4							8.6	10.1
SW	.4		.4									1.2	6.3
WSW			.4									.4	9.0
W	.4	.4										1.2	3.7
WNW	.4											.4	2.0
NW	1.2		.4	.4		.4						2.4	8.0
NNW		.4	.4	1.2								2.7	9.9
VARB													
CALM												8.6	
	1.1	26.3	27.8	19.0	2.7	.4						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 255

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ATSUMI, JAPAN STATION NAME 73-32 YEAR MAY
CLASS ALL WEATHER MONTH 10
CONDITION 10 HOURS (L.S.T.)

SPEED (KMTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	2.7	1.8	4.7	.7	.7						9.7	10.1
NNE	.	2.7	3.2	.7	.7							7.6	7.7
NE		1.1	2.7	1.8	.4							5.4	9.5
ENE	.	1.4	1.4	.4								3.6	7.0
E	.	1.4	1.1	.7								3.6	7.0
ESE	1.1	2.7	1.1	.4								5.4	5.3
SE		1.4	1.4									2.9	6.5
SSE	.	1.1	3.2	.7	.7							6.1	9.4
S	.	4.7	11.0	14.4	4.3	.4						36.7	11.6
SSW		1.4	4.7	4.7	2.2	.4						13.3	12.2
SW	.4	1.1	.4	.4								2.2	7.0
WSW		.7	.7									1.1	6.0
W	.											.4	2.5
WNW													
NW													
NNW		.	.4	.4								1.1	8.7
VARBL												1.4	
CALM													
	4.7	22.7	33.1	29.4	8.3	1.4						100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 270

8MOS

2

NAVAL WEATHER SERVICE
DETACHMENT
AGRIVILLE NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: AGRIVILLE, JAY A. DATE: 10-10-60
 CLASS: ALL WEATHER
 CONDITION:
 MONTH: MAY
 DAY: 10
 HOURS (LST):

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.1	1.4	1.1	1.1							5.3	11.4
NNE		2.1	1.1	.4	.7							5.1	8.6
NE	.7	1.1	.4	.7	.4							2.4	8.6
ENE	.7	.4	.4	1.1								2.5	7.4
E		1.1	2.1	.7	.4							3.8	8.1
ESE			.7	1.1								1.1	11.4
SE		1.1	2.5									3.9	6.6
SSE	.4	1.1	1.1	.4								2.8	6.5
S		3.1	11.1	24.1	8.5							47.5	12.9
SSW		.7	6.1	4.0	1.9	.7	.7					16.0	12.6
SW		.4	.7	1.8		.4						3.2	12.6
WSW	.7	1.1		.4								2.1	5.5
W		.7										.7	4.5
WNW													
NW			.7									.4	8.0
NNW				1.1								1.1	12.7
VARIABLE													
CALM												.7	
	2.1	14.1	29.1	30.4	12.8	1.1	.7					100.0	11.4

TOTAL NUMBER OF OBSERVATIONS 292

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ATOKSI, JAPA. STATION NAME 73-84 YEAR MAY
CLASS ALL WEATHER MONTH MAY
CONDITION IF
HOURS 11.5

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	4.4	1.7	2.7	.7							9.2	3.5
NNE	.7	.7	1.7									2.7	3.2
NE		.7	1.7	1.7								2.7	3.6
ENE		.7	1.7									1.7	7.8
E	.7	2.7	1.7	1.7								6.1	8.1
ESE		1.7	.7	.3								2.4	7.0
SE	.7	.7	1.7									2.7	6.3
SSE	.7	.7	2.7	.7								4.1	7.3
S		.7	14.7	15.4	2.7	.7						41.6	10.2
SSW	.7	2.4	6.7	6.5	1.7	.3						18.1	10.2
SW		.7	1.4	1.7								2.7	9.4
WSW	.7			.7		.7						1.7	9.6
W	.7	1.7										1.7	4.4
WNW													
NW		.7			.7							.7	11.0
NNW	.7	.3	.7	.7								2.7	3.8
VARBL													
CALM												1.0	
	.5	24.2	33.3	29.7	4.8	1.0						100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 293

SMOS

LE
2

NAVY WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NO. 1001, JAG-54 STATION NAME YEARS MAY NORTH
ALL WEATHER CLASS 71
COORIDINATE HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.1	4.0	1.3								14.2	7.0
NNE	.4	2.2	2.9	1.6	.4							7.3	6.7
NE	.7	1.1	.7									2.9	5.5
NNE	.7	.7	.4									1.3	4.4
E	.2	1.1		.4								4.0	4.1
ESE	.7	1.1	.7	.4								3.7	5.0
SE	.4	.4										.7	3.0
SSE	.4	.4	.4	1.1								5.1	6.6
S	2.5	.4	11.3	5.1	1.1							28.0	8.0
SSW	1.1	4.0	2.0	4.0	.7							12.7	9.0
SW	1.1	.7	.7	1.1								3.6	7.1
WSW	.4	.4										.7	4.0
W	1.1											1.1	1.3
WNW	.7											.7	2.0
NW	.7	.7		.4								1.3	5.0
NNW	.7	1.1	.7	1.8								5.1	6.1
VARBL													
CALM												6.9	
	17.5	24.6	24.7	18.9	2.2							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 275

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ATLUGI, JAPAN

73-72

MAY

STATION NAME

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

ALL

NOVEMBER (1957)

CONDITION

SPEED (KNTS) /YR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	6.5	4.7	7.1	.5	.1						18.2	7.0
NNE	1.0	2.3	2.0	.0	.3							8.3	7.0
NE	.0	1.7	1.2	.6	.1							4.0	6.9
ENE	.7	.0	.5	.3								1.9	6.5
E	.0	1.1	.0	.0	.1							3.2	6.0
ESE	.0	1.0	.0	.3								2.1	6.2
SE	.0	.7	.0									1.0	5.6
SSE	.0	1.2	1.2	.0	.1							3.5	7.3
S	1.7	4.0	5.6	7.9	2.0	.1						27.6	10.5
SSW	.0	1.0	7.0	3.0	1.1	.7	.1					11.4	10.8
SW	.0	.7	.7	.6		.1						2.5	8.1
WSW	.0	.0	.0	.1		.1						1.2	6.0
W	.0	.0	.1	.1								1.0	3.0
WNW	.0	.0										.0	2.8
NW	.0	.0	.0	.3	.1	.1						1.7	6.5
NNW	.0	1.0	.0	.0	.1							3.0	7.0
VARS													
CALM												7.1	
	1.0	25.5	26.2	21.8	5.0	.7	.1					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

1993

BWOS

2

NAVAL WEATHER SERVICE
DETACHMENT
AGRIVILLE, SC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION AGRIVILLE, JAMA. STATION NAME 16-90 YEARS JUN
 MONTH JUN
 CLASS ALL WEATHER
 COORDINATE 00
 HOURS 11 57

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	0.0	0.0	0.0								20.0	6.1
NNE	1.0	3.0	0.0									5.0	4.6
NE	2.0	2.0	0.0									5.0	3.7
ENE		1.0										1.0	5.0
E		1.0	0.0									1.0	5.7
ESE	0.0	1.0										1.0	3.3
SE	1.0		0.0									1.0	4.0
SSE			0.0									0.0	9.0
S	3.0	7.0	1.0	2.0	0.0							24.0	7.1
SSW	1.0	1.0	1.0	4.0	0.0							9.0	10.3
SW		0.0	1.0									1.0	7.0
WSW	0.0											0.0	2.0
W	1.0											1.0	2.0
WNW	0.0											0.0	1.0
NW	0.0	1.0	0.0									2.0	4.8
NNW		1.0	0.0	0.0								2.0	7.5
VARBL													
CALM												17.0	
	14.0	32.0	25.0	7.0	1.0							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 170

SMOS

NAVAL WEATHER SERVICE
STATION NAME
ADDRESS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME YOKOSUKI, JAPAN YEARS 16-22 MONTH JUN
 ALL WEATHER CLAS 07 HOURS 11-17
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0.1	1.0	0.1		0.5							2.8	5.5
NNE	0.1	0.1	0.1									10.0	5.3
NE	0.2	0.1	0.1									4.0	4.5
ENE	1.0	1.0	0.1									3.0	4.2
E	0.1	0.1										1.2	3.0
ESE	0.1											0.1	3.0
SE	0.1	1.0										1.0	4.0
SSE	1.0	1.0										3.0	4.0
S	0.1	2.0	4.0	2.0								11.0	7.4
SSW	1.0	1.0	1.0	3.0								7.0	6.5
SW			0.1			0.1						1.2	15.5
WSW	0.1											0.1	2.0
W	0.2											1.2	2.0
WNW	0.1	0.1										7.0	2.0
NW	1.0	1.0										7.0	3.6
NNW	0.1	0.1	1.0	0.1								6.0	5.6
VARBL													
CALM												10.0	
	11.0	31.0	20.2	6.0	0.6	0.6						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 166

2

NAVAL WEATHER SERVICE
METEOROLOGICAL
OFFICE

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1000 JAPAN STATION NAME 17-0 YEARS JUN
ALL WEATHER MONTH
CLASS OF
HOURLY LST

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	17.6	6.6	3.2								29.2	5.4
NNE	.2	1.1	1.7	.4								12.3	5.6
NE	1.0	1.4	.4	.4								4.5	4.6
ENE	1.1	.7	.									3.2	3.9
E		.7										.7	3.5
ESE	.4	.7										1.1	4.0
SE	.4	.7	.4									1.5	4.5
SSE	.4											.4	3.1
S	.7	1.1	1.4	2.2	.7	.4						7.7	9.5
SSW	1.1	1.0	.7	1.1	.4							6.5	7.5
SW	.	.4	.7	.4								2.2	6.6
WSW		.4										.4	4.0
W	1.1	.										1.1	2.3
WNW	.4	.4										1.1	3.3
NW	.4											1.1	1.7
NNW	.4	1.4	7.2	1.1								6.6	6.5
VARBL												10.0	
CALM													
	2.2	33.6	20.1	9.6	1.1	.4						10.0	5.2

TOTAL NUMBER OF OBSERVATIONS 278

BMOS

2

NATIONAL WEATHER SERVICE
STATION NAME
APPROXIMATE

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: STATION NAME YEARS: 1950-1951
CLASS: ALL WEATHER
MONTH: JAN
HOURS: ALL DAY
CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0.1	0.4							0.5	7.3
NNE	0	0	0.2	0.7								1.9	6.1
NE	0	0	0.5	1.2								2.7	5.6
ENE	0	0	1.0	0.4								5.1	6.7
E	0	0	0									3.1	2.6
ESE	0	0	0									1.2	3.7
SE	0	0	0									1.5	7.2
SSE	0	0	0									2.7	2.5
S	0	0	0	0	1.0	0.4	0.7					17.4	9.1
SSW	0	0	0	0.2	0.6							6.6	15.7
SW	0	0	0	0	0.4							4.6	6.4
WSW	0	0	0	0	0							1.1	4.5
W	0	0	0	0	0							0	1.5
WNW	0	0	0	0	0							0	1.5
NW	0	0	0	0	0							2.7	4.7
NNW	0	0	0	0	0							0	0
VARBL	0	0	0	0	0							0	0
CAIM	0	0	0	0	0							0	0
	2.0	2.0	32.4	15.7	3.5	0.4	0.4					17.3	6.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

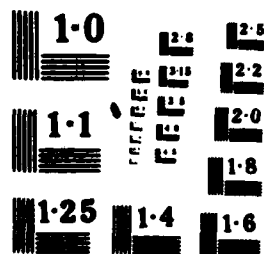
SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
FOR ATSUGI JAPAN(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC MAR 85

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2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, JAPAN STATION NAME 73-82 YEARS JUN
CLASS ALL WEATHER MONTH 17
CONDITION NOISE (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.9	4.0	4.0	.4							12.1	8.9
NNE	.7	5.1	2.7									8.1	5.6
NE	1.1	2.2	2.9	.4								6.6	6.5
NNE	.7	1.5	2.9									5.1	6.4
E	.4	2.6	1.1									4.0	6.0
ESE	1.1	.4	1.0									2.9	5.9
SE		1.1	1.1									2.2	5.8
SSE	1.1	3.3	1.0	.4								7.0	5.6
S	2.6	5.1	11.7	9.5	2.2	.4	.4					71.9	10.0
SSW	.7	1.1	4.0	2.9	5.5							14.3	12.7
SW	1.1	.7	.4	.7		.4						3.3	9.0
WSW													
W													
WNW	.4											.4	2.0
NW													
NNW		.4	.7	.4	.4							1.8	10.2
VARS													
CALM												.4	
	11.0	2.6	34.4	18.3	8.4	.7	.4					170.0	8.7

TOTAL NUMBER OF OBSERVATIONS 273

SMOS



2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NCPERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	ASHEVILLE, JAPAN	13-62	JUN
STATION NAME		YEAR	MONTH
ALL WEATHER			15
CLASS			NO. OF DAYS
CONDITION			

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.0	4.7	1.8								9.8	7.6
NNE		1.0	1.1	1.4								4.2	5.2
NE	.7	.7	.7	.7								2.8	6.9
NNE	.7	1.4	2.0	.4								5.3	7.2
E	.7	1.4	2.1	1.4								5.3	8.3
ESE	.7	.4	2.0									3.2	7.2
SE		.4	1.1	.4								1.5	8.2
SSE		2.1	1.0	1.4								5.8	8.1
S	1.1	2.0	13.7	16.5	2.4	1.4						38.3	11.4
SSW	.7	1.1	4.2	7.7	.7	.7						15.1	11.4
SW		.7	2.0	1.1	1.4							5.6	11.1
WSW			.7	.4								1.1	11.0
W													
WSW													
NW													
NNW			1.1	.4	.4							1.8	12.2
VARB													
CALM												.7	
	4.0	17.4	38.2	33.3	5.3	2.1						100.0	9.9

TOTAL NUMBER OF OBSERVATIONS

295

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASOCHI, JAPAN 73-82 JUN
STATION NAME ALL WEATHER CLAS 18
CLAS 18
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	3.3	4.2	1.4	.4							8.5	7.8
NNE	.4	2.5	1.9	.7								5.3	7.4
NE	.4		1.1	.4								1.8	7.8
NNE	.4	.7	1.7	.4								3.2	7.3
E	1.4	2.1	2.7									6.4	5.8
ESE	1.1	.7	1.1									2.8	5.0
SE		1.1	1.1									2.1	6.2
SSE	.4	.4	.7									1.4	5.8
S	1.1	5.5	16.0	13.5	1.8	.4						41.3	9.8
SSW	1.4	2.7	7.8	3.6	.4	1.4						17.4	9.5
SW	.7	1.4	.4	1.1	.7							4.3	9.2
WSW		.4	.4									.7	6.0
W		.7										.7	4.0
WSW		.4										.4	5.0
NW	.4											.4	3.0
NNW			.4	.7								1.1	11.3
VARL												2.1	
CALM													
	7.8	24.0	32.4	21.7	3.2	1.8						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 281

8808

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, JAPAN STATION NAME 73-62 YEARS JUN
ALL WEATHER MONTH 21
CLASS NOON 11.57
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	4.2	2.4	1.7								10.5	6.6
NNE	.1	2.1	3.0	1.7								10.5	6.4
NE	1.0	1.7	1.4	.7								4.0	6.3
ENE	1.7	2.4	.7									4.9	4.5
E	.1	2.1	1.4									5.6	4.9
ESE	.3	1.4										1.7	4.6
SE	.7	1.7										1.7	3.4
SSE	1.7	1.7		.7								4.2	4.8
S	4.2	2.4	1.1	3.0	1.0							27.6	7.5
SSW	2.4	2.1	3.0	2.4	.7							11.5	8.0
SW	1.4	1.7	.7	1.0								4.2	7.4
WSW	1.7	.7		.3								2.1	5.2
W		.7										.3	4.0
WWW													
NW	1.0		.7									2.1	4.0
NNW	.7		1.7	.3								2.1	6.7
VARB.													
CALM												5.0	
	24.1	22.4	25.0	12.9	1.7							170.0	6.2

TOTAL NUMBER OF OBSERVATIONS 286

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: A'SLUI, JAPAN YEAR: 73-92 MONTH: JUN

CLASS: ALL WEATHER CONDITION: ALL

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.3	6.7	5.6	2.2	.2							18.1	6.5
NNE	1.7	3.7	3.4	.7								9.7	6.1
NE	1.2	1.7	1.5	.4								4.7	5.9
NNE	1.1	1.8	1.5	.7								4.2	5.6
E	.7	1.6	1.1	.2								3.5	5.7
ESE	.7	.6	.3									2.0	5.3
SE	.4	.5	.4	.1								1.5	5.3
SSE	1.7	1.2	.7	.4								3.2	5.6
S	2.7	5.7	9.3	7.2	1.5	.4	.1					26.0	9.4
SSW	1.2	1.7	3.4	3.4	1.2	.3						11.2	10.2
SW	.7	.8	.5	.7	.4	.1						3.6	8.7
WSW	.4	.7	.2	.1								1.0	5.7
W	.4	.2										.5	2.7
WWW	.7	.2										.5	2.5
NW	.7	.7	.2									1.1	3.6
NNW	.7	.7	1.3	.6	.2							3.2	7.7
VARBL													
CALM												5.7	
	17.5	21.6	30.1	15.9	7.4	.9	.1					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 2000

8808



2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	A 551, JAPAN	77-82	DATE
STATION NAME	ALL WEATHER	YEAR	JUL
CLASS			CC
CONDITION			MOON 11.57

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.0	5.8	3.4	.6								17.8	5.3
NNE	1.1	2.3	1.7									5.2	5.2
NE	1.1	3.4	.6									5.2	4.9
NNE		.										.6	4.0
E	.3	1.7	.6									4.6	4.1
ESE	1.7	.6										2.3	2.5
SE	1.1	1.1										2.3	3.0
SSE	1.7	2.3										4.0	3.9
S	6.7	5.7	7.6	1.7	.6							22.4	6.1
SSW	1.1	2.3	1.7	2.9								8.0	7.9
SW	2.3		.6									2.9	3.4
WSW													
W													
WNW	.6											.6	2.0
NW	.6		.6									1.1	4.5
NNW	1.7	1.1	.6									3.4	3.7
VARBL													
CALM												19.5	
	21.4	31.0	17.2	5.2	.6							100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 174

SMOCS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME ATSUGI, JAPAN YEARS 77-82 MONTH JUL
CLASS ALL WEATHER HOURS 03
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	4.7	11.5	4.7									20.6	5.1
NNE	2.4	5.3	.6									8.2	4.6
NE	2.4	2.0										5.3	3.7
NNE	1.0	.6										2.4	2.8
E	1.0											1.2	1.7
ESE	1.2											1.2	2.5
SE	1.2	.6										1.2	2.7
SSE	.6	.6										1.2	4.5
S	4.7	4.7	2.4	1.0								14.7	5.1
SSW	1.0	1.0	2.0	1.0								8.2	7.6
SW	.6											.6	3.0
WSW	.6	.6										1.2	3.5
W	1.2											1.2	1.5
WNW	.6											.6	2.0
NW	1.2	.6										1.2	2.7
NNW	1.0	2.0		.6								5.3	4.7
YARBL													
CALM												24.1	
	20.4	31.0	10.5	4.1								170.3	3.6

TOTAL NUMBER OF OBSERVATIONS 170

8806

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHES, JAPAN

STATION NAME

73-82

YEARS

JUL

MONTH

ALL WEATHER

CLASS

06

HOURS PER DAY

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0.5	11.6	4.1	1.0								26.4	4.6
NNE	6.0	7.5	2.1	.3								14.7	4.3
NE	1.0	2.1										3.0	3.7
ENE	1.0	.7		.7								2.7	4.4
E	.7	.3										1.0	2.7
ESE													
SE	.7											.7	2.0
SSE	.7		.7									1.0	3.7
S	2.7	1.4	2.1	2.1								8.2	6.7
SSW	1.1	2.4	1.0	2.1	.3							7.6	6.9
SW	.7	.3	.7	.3	.7							2.1	11.2
WSW													
W	1.0		.7									2.1	3.7
WWW	1.0	.3										1.4	3.3
NW	1.0	.7										1.7	2.8
NNW	1.0	1.4	1.0	.3								4.5	5.3
VARB													
CALM												71.9	
	32.6	26.7	11.3	6.5	1.0							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

292

8806

2

NAVAL WEATHER SERVICE
DETACHMENT
ADRIAN, JAPAN

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ADRIAN, JAPAN YEAR: 1952 MONTH: JUL DAY: 06 HOUR (LST):

ALL WEATHER CLASS: CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	.6	4.1	2.2	.4							10.7	6.4
NNE	1.0	7.5	3.4	.7								13.1	5.0
NE	.7	3.7	1.1	.4								6.0	5.9
ENE	1.0	.7		.4								5.0	4.2
E	.7	2.2	.7									5.6	4.0
ESE	.7											.7	2.0
SE	1.1	.4										1.0	2.5
SSE	1.1	1.5	.7									3.4	4.3
S	.1	3.7	6.7	1.9	.7							17.2	6.9
SSW	2.7	2.4	3.7	3.7	1.1							13.0	4.8
SW		.4	.4		.4							1.1	10.7
WSW	.7	.4		.4								1.5	6.0
W													
WNW	.7			.4								.7	7.0
NW		.7										.4	4.0
NNW	.7	1.1	.7	.4								2.6	7.0
VARBL													
CALM												7.5	
	12.1	35.6	21.7	10.5	2.6							100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 267

SMOS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

73-42

461

STAT 1000

STATION SALES

YEARS

ALL WEATHER

CLAM

CONTENTS

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1

MOUSE (L B 9)

CONCLUSION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	5.1	.4	.4							9.1	6.9
NNE	1.1	4.7	3.6	.7								10.1	5.1
NE	1.0	1.1	1.0	1.4								5.7	7.3
ENE	1.1	1.0	1.4									4.3	5.1
E	1.1	2.7	2.7	.4								6.3	5.9
ESE		.4	.6									.7	6.0
SE	.0	1.4										1.3	4.6
SSE	.0	3.3	1.1	.4								5.1	6.2
S	1.4	5.1	12.3	1.1	2.2	.7						31.6	10.1
SSW	1.1	3.7	6.2	5.0	1.8							18.5	10.1
SW	1.1	.7	.4	.4								2.7	5.3
WSW	.7		.4									1.1	4.7
W													
WNW	.4											.4	1.0
NW	.0											.0	1.0
NNW		.0										.4	4.0
VARIABLE													
CALM												1.4	
	12.0	26.0	35.1	19.6	4.3	.7						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

276

SMO3

2

NAVAL WEATHER SERVICE
PACIFIC FLEET
HONOLULU, HAWAII

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: STATION NAME: YEARS: JUL 1961
CLASS: MONTH: HOURS:
CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.1	2.4	1.0								6.6	6.6
NNE		0.7	2.1	0.3								3.1	7.3
NE		1.4	1.0	1.0								4.1	7.4
ENE	1.0	1.0	1.0	0.3								3.3	5.9
E	0.7	2.1	2.1	0.7								5.6	6.7
ESE		2.1	0.7	0.7								3.1	6.2
SE		1.0										2.1	5.0
SSE		1.4	2.1									3.5	6.0
S	0.7	7.4	14.4	16.1	5.1	0.7						40.1	11.2
SSW	0.7	2.1	7.0	9.2	1.7							21.4	10.9
SW		0.7	0.7	0.3	0.3							1.7	10.6
WSW		0.7		0.3								1.0	7.7
W	0.7	0.7	0.7									1.0	4.7
WNW													
NW													
NNW		0.7	0.7									0.7	6.5
VARB													
CALM												1.7	
	0.7	14.5	34.6	22.8	7.2	0.3						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 222

8805

10
2

NAVAL WEATHER SERVICE
PACIFIC FLEET
ATKINS CREEK

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ATKINS CREEK STATION NAME: ATKINS CREEK YEARS: 1951-1952
 ALL WEATHER CLASS: ALL WEATHER MONTH: JUL
 HOURS: 1
 CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			2.7	1.4								6.1	7.6
NNE		1.4	1.4	.7								4.1	7.9
NE		1.4	.7	.7								2.4	7.6
ENE		.7	.7	1.4	.3							3.1	7.1
E		1.4	2.7	.7								3.1	7.7
ESE		1.4	1.4									2.7	6.1
SE		1.4	.7									1.4	5.4
SSE		.7	.7	.7								2.7	7.2
S	2.7	6.1	12.6	12.6	.7	.7						41.5	7.3
SSW	1.4	3.4	6.1	6.1	.7							31.1	7.2
SW	.7	1.4	1.4	1.4								4.8	7.4
WSW	.7		.7	.3								1.4	7.3
W		.7	.7									.7	5.5
WNW													
NW												.3	2.3
NNW												.7	1.0
VARBL													
CALM												3.1	
	6.1	22.4	31.4	25.6	1.7	.7						170.7	6.4

TOTAL NUMBER OF OBSERVATIONS 274

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE, NC YEARS 1961-62 MONTH JUL
CLASS ALL WEATHER DATE 21
CONDITION NOVEMBER 1961

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	2.4	2.1	2.1								8.1	7.3
NNE	1.4	2.4	1.4	.3								5.6	5.6
NE	1.0	1.0	1.0	.7								3.7	6.4
ENE	.7	2.1	2.1									4.5	5.9
E	1.7	2.1	.3									4.2	4.0
ESE	.7	.7	.7									1.4	4.5
SE	.3	1.4										1.7	3.6
SSE	.7	1.7		.7								2.4	5.1
S	5.0	9.7	13.2	5.2	.7							34.7	7.2
SSW	7.1	4.6	2.8	3.8	1.0							15.3	8.0
SW	1.4	.7	1.0	.3								3.5	6.3
WSW	1.4	.3		.7								2.1	4.5
W	.3											.3	2.0
WNW	.7											.7	2.0
NW	1.0	.7										1.4	2.5
NNW	1.0	.3	.3									1.7	3.6
VARBL													
CALM												6.3	
	22.6	27.5	24.7	13.2	1.7							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 248

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	ASHEVILLE, JAPAN	STATION NAME	13-42	YEARS	JUL
					MONTH
		ALL WEATHER			ALL
		CLASS			HOURLY (1-5)
		CONDITION			

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	5.7	3.6	1.2	.1							13.7	5.9
NNE	1.	3.7	2.1	.4								8.1	5.6
NE	1.1	1.7	.6	.6								4.4	6.0
ENE	1.1	1.4	.7	.3	.7							3.5	5.6
E	1.2	1.4	1.2	.2								4.4	5.4
ESE	.	.4	.7	.7								1.5	4.9
SE	.	1.7	.7									1.7	3.9
SSE	.	1.6	.6	.2								2.9	5.6
S	3.7	5.1	1.7	7.7	1.4	.2						27.3	8.7
SSW	1.7	3.7	4.7	4.7	.9							15.0	9.2
SW	.7	.7	.7	.4	.2							2.5	7.4
WSW	.	.2	.1	.2								1.0	5.9
W	.4	.1	.1									.7	3.7
WNW	.4	.		.7								.5	3.3
NW	.	.2	.7									.2	2.8
NNW	.	.7	.4	.1								2.1	5.0
VARBL													
CALM												5.8	
	1.9	27.4	25.5	15.5	2.6	.2						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 253

SMOS

32

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, JAPAN STATION NAME ALL WEATHER YEARS 77-82 AUG 0000
DATE 00
HOURS 11 00

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	15 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.0	1.0	5.3	1.0								21.2	6.0
NNE	1.0	1.2	1.0									4.2	5.1
NE	3.0	2.0	.6	.6								7.6	4.5
NNE	.0		.0	.0								1.0	7.3
E	1.0	1.2										2.9	2.6
ESE	.0	.0		.6		.6						2.4	11.5
SE	.0											.0	1.0
SSE	1.2	.0										1.0	2.7
S	4.1	5.0	7.6	3.0	1.8							22.0	7.6
SSW	1.0	1.0	5.3	3.5								12.4	8.2
SW	1.2	.0			.6							2.4	6.3
WSW	.0											.0	2.0
W	.0											.0	2.0
WWW	1.2											1.2	2.5
NW	1.2	.0										1.0	2.7
NNW	.0	.0	.6									1.8	4.3
VARB													
CALM												13.0	
	24.7	26.5	21.8	10.6	2.4	.6						100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 170

8806

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: ATSUGI, JAPAN STATION NAME: ALL WEATHER CLASS: CLAS YEAR: 77-82 MONTH: 03
 DATE: 03 HOURS: 11 00

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	0.7	8.4	3.0								28.7	5.7
NNE	1.2	1.2	3.0									5.4	6.4
NE	.	2.4	1.2		.6							7.2	5.3
NNE	.											.6	2.0
E	.	.6										1.2	4.0
ESE													
SE	.	.6										1.2	3.0
SSE	1.2	.6	.6		.6			.6				3.6	11.8
S	2.4	1.2	4.8	2.4	.6							12.0	7.7
SSW	1.2	1.2	3.0	1.8	.6							8.4	8.7
SW			.		.6							1.2	13.0
WSW	2.4											2.4	1.3
W	.											.6	1.0
WNW	1.2											1.2	2.0
NW	1.2	.6										2.4	2.8
NNW	3.0	3.6	.6									7.2	4.2
VARIABLE													
CALM												16.4	
	21.1	22.2	22.2	7.2	3.0			.6				100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 167

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: ASISCI, JAPAN STATION NAME: ASISCI, JAPAN YEAR: 13-22 DATE: AUG
CLASS: ALL WEATHER MONTH: 06
CONDITION:

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	14.5	15.3	7.5	2.8	.4							40.6	5.2
NNE	2.5	5.3	.7									8.5	4.6
NE	.4	.7										1.1	3.7
NNE	.7											.7	2.5
E													
ESE	.4											.4	2.5
SE	.4											.4	1.0
SSE	.4	1.4	.7									2.4	5.7
S	1.4	1.4	.7	2.8		.7						7.1	10.1
SSW	1.4	1.4	2.8	1.1	.7							7.8	7.7
SW	.4	1.4	.4	1.1								3.2	7.7
WSW	.4	.4										.4	2.0
W	.7	.4										1.1	3.0
WNW	1.1											2.1	2.2
NW	1.4	1.4	.4									3.6	3.9
NNW	2.4	1.4	1.4									6.4	4.1
VARIABLE													
CALM												14.2	
	31.3	30.2	14.6	7.6	1.1	.7						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 281

8806

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME ATSUGI, JAPAN YEARS 73-82 MONTH AUG
CLASS ALL WEATHER DAY 09
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.1	6.1	1.3	4.2	.4							24.5	7.4
NNE	.3	4.6	2.1	.4								10.3	5.8
NE	1.0	3.4	1.0	.8								7.6	6.1
NNE	1.0	1.0										3.4	3.7
E	.4	.										1.1	4.0
ESE	.4											.4	1.0
SE	.4	.4										.	4.0
SSE	.4	.		.4				.4				2.3	13.5
S	.4	4.2	2.7	4.2	.8	.4						15.6	8.2
SSW	1.0	3.1	3.4	6.1	.4	.4						16.9	9.9
SW	1.1	.	.4	2.3	.4							5.0	9.3
WSW		.										.4	6.0
W	.4											.4	2.0
WNW	.											.4	2.5
NW		.4										.4	4.0
NNW	.4	2.7	1.0									5.0	6.1
VARIABLE													
CALM												7.3	
	17.0	30.2	23.3	13.7	1.9	.4		.4				100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 262

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: 1. SUSTI, JAPAN 73-82 YEARS: AUG
STATION NAME: ALL WEATHER CLAS: 12
COORDINATE: 12.00 N 129.00 E

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.1	4.0	1.8	.4							10.4	8.0
NNE	1.1	1.7	4.3	1.4								8.6	7.7
NE		2.2	.7	.7	.4							5.0	7.2
ENE	1.1	2.5	1.1	.4								5.0	5.6
E	.7	1.1	1.7									3.6	6.0
ESE	.4	1.1	.7									2.2	5.2
SE		.7	.7									1.4	6.5
SSE	.7	1.4	1.4	.4	1.4							5.4	9.5
S	1.4	5.0	10.4	10.4	1.8	.7	.4	.4				31.3	10.7
SSW	1.1	3.2	5.0	6.8	3.6							19.8	11.3
SW		1.1	.7	.7	.7							2.5	12.0
WSW		.4	.4	.4								1.1	9.7
W													
WWW													
NW	.7											.7	2.0
NNW		.7	.4									1.1	5.3
VARS												1.8	
CALM													
	1.4	25.9	30.9	23.0	6.3	.7	.4	.4				100.0	9.1

TOTAL NUMBER OF OBSERVATIONS 278

8806

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME ASUSI, JAPAN YEARS 73-82 MONTH AUG
 ALL WEATHER CLASS 15
 CONDITION 15
 HOURS 11 57

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.0	3.7	1.7								6.1	9.2
NNE	.0	1.4	1.7	1.7								5.1	7.1
NE	.0	1.7	1.7		.3							4.4	7.5
NNE	.0	1.0	.3	1.0								3.0	5.3
E	.0	1.0	2.0	.7								4.1	7.6
ESE		.0	.7	.7								2.0	5.7
SE		1.7	1.0									2.7	6.8
SSE	.0	.3	1.4	.7		.0						3.4	8.8
S		4.0	13.2	18.6	2.7	1.0						40.2	11.3
SSW	.0	1.4	6.4	7.8	3.7	.3		.3				20.3	12.4
SW	.0	.7	1.0	.7	.0							3.7	10.8
WSW	.0	.3	.3	.3								1.4	7.5
W		.0	.3	.3								1.4	5.8
WWW													
NW			.0									.3	8.0
NNW		.0	.0									1.0	7.7
VARBL													
CALM												1.0	
	4.7	17.2	34.1	33.4	7.4	1.7		.3				100.0	10.3

TOTAL NUMBER OF OBSERVATIONS 206

8806

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ATGUSHI, JAPAN STATION NAME 13-22 YEARS 1950
 ALL WEATHER CLASS 10
 CONDITION HOURLY

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.4	3.1	1.4								6.1	8.3
NNE	.7	1.0	.7	.3								2.7	6.5
NE		1.0	2.4									3.7	7.2
NNE		1.4	2.0	1.4								4.9	8.1
E	1.4		3.4									4.9	6.6
ESE		1.4	.7	.3								2.4	7.0
SE		.7	.3									.7	6.5
SSE		1.4	.7	1.0								3.1	8.0
S	1.0	7.5	17.3	8.5	7.4	.3						39.3	9.6
SSW	1.4	4.4	17.2	5.8	1.7							23.4	9.3
SW	1.4	2.0		1.4	.3							5.1	7.5
WSW	.7		.7									.7	4.5
W	.7											.7	3.0
WNW													
NW													
NNW	.7	.3										.7	3.5
VARIABLE													
CALM												2.4	
	7.1	23.7	41.0	20.0	5.4	.3						170.0	8.5

TOTAL NUMBER OF OBSERVATIONS 295

8808

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ATSUJIS, JAPAN

STATION NAME

72-87

YEARS

MOON

ALL WEATHER

CLASS

21

HOURLY

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	4.1	2.1	.7	.3							8.7	6.3
NNE	1.7	2.7	2.4	.7								6.7	4.5
NNE	.7	1.7	2.1									4.5	6.0
NNE	.7	1.7	.3	.3								2.3	6.0
E	.7	2.1	.7	.7								4.2	6.7
ESE	.7	1.7	.7									3.1	4.9
SE	.7	1.7										1.4	3.5
SSE	1.7	2.1	1.4	.3								5.5	5.4
S	.7	12.4	9.1	5.2	.3		.3					21.2	7.0
SSW	2.4	6.7	3.1	4.2	1.7							15.9	8.3
SW	.7		.7	1.4	.3							2.4	11.7
WSW	.7	.3		.7								1.0	6.7
W													
WWW	.7	.3										.7	4.5
NW		.7										.3	4.0
NNW	1.7		1.7									2.1	5.2
VARIABLE													
CALM												8.7	
	1.6	36.3	23.2	13.8	2.1		.3					100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

289

8806

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ATCUG1, JAPAN YEARS 77-78 MONTH AUG

CLASS ALL WEATHER

CONDITION

ALL
HOURLY

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	5.0	5.2	2.1	.2							17.2	6.4
NNE	1.0	2.0	2.2	.5								6.6	6.2
NE	1.0	2.2	1.7	.2	.1							4.9	6.2
ENE		1.1	.6	.5								2.0	6.3
E	.7	.9	1.1	.2								2.8	6.2
ESE	.7	.7	.4	.2		.1						1.7	6.6
SE		.7	.7									1.2	5.1
SSE	.7	1.1	.7	.4	.2	.7		.1				3.5	8.2
S	2.1	5.0	8.6	7.5	1.5	.4	.1	.0				26.2	9.4
SSW	1.4	2.0	5.1	4.9	1.6	.1		.7				16.7	9.9
SW		.9	.4	1.7	.4							3.3	9.4
WSW	.7	.2	.1	.1								1.0	5.3
W	.7	.1		.0								.7	4.7
WNW	.7	.7										.7	2.6
NW	.0	.4	.1									1.1	3.5
NNW	.7	1.1	.7									2.9	4.9
VABS												7.4	
CALM													
	10.0	26.7	27.7	17.8	4.1	.6	.1	.2				100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 2036

8806

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHIKAGI, JAPAN

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHIKAGI, JAPAN STATION NAME: 17-8 YEARS: 10
ALL WEATHER CLASS: 10
CONDITION: 10
HOURS: 11.5 T

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.3	17.0	11.0	5.3	.6							40.3	6.6
NNE	7.4	3.4	1.2	.6								7.7	6.5
NE	1.0	1.0										3.0	1.2
ENE	.		.									1.2	6.0
E	1.0	.										2.4	3.0
ESE													
SE	.											.5	1.0
SSE	1.2	.										1.5	3.0
S	1.2	2.4	2.4	1.0	.6							8.5	8.1
SSW	.	1.2	3.0	.6	.6							6.5	8.6
SW	.	1.2										1.5	4.5
WSW	.											.5	3.0
W													
WNW	1.2	.										1.0	3.0
NW	1.2											1.2	2.0
NNW	.1	.6	5.0	.6								13.0	5.0
VARBL													
CALM												9.5	
	2.1	32.0	24.0	8.9	1.8							100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 167

SMOS

2

NAVAL WEATHER SERVICE
ATTACHMENT
ASHI VILLAGE

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: ASHI, JAPAN STATION NAME: 77-9 YEARS: SEP
CLASS: ALL WEATHER MONTH: SEP
CONDITION: 07
HOURS: 11.51

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	4.0	22.4	11.5	3.0	.6							42.4	6.3
NNE	1.2	1.5	1.3	1.2								9.7	5.1
NE	3.0	.4	.4									4.2	3.0
ENE	.0	.4										1.2	4.0
E		.4										.4	4.0
ESE		.4										.6	4.0
SE													
SSE	1.0	.4	.6									3.0	4.2
S	1.0	2.4	.6	1.8		.6						7.3	8.6
SSW	2.4	1.2	.6	.6								4.8	4.8
SW	.0											.6	3.0
WSW	.0	1.2										1.3	3.3
W													
WNW	.0											.6	1.0
NW	.0	1.2										1.3	3.3
NNW	2.4	3.0	4.2	2.4								12.7	7.4
VABL													
CALM												7.9	
	1.2	40.2	20.6	9.1	.6	.6						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 105

SMOS

2

NATIONAL WEATHER SERVICE
DEPARTMENT
OF COMMERCE

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ST. JOHN'S STATION NAME: ST. JOHN'S YEARS: 1960-61 MONTH: ALL
CLAS: ALL HOURS: ALL

CONDITION

SPEED (KTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	MEAN WIND SPEED
N			1.0	1.0	1.0						6.0	6.4
NNE			1.0	1.0	1.0						10.0	6.7
NE				1.0	1.0						1.0	7.8
ENE				1.0	1.0						1.0	7.0
E				1.0	1.0						1.0	4.0
ESE				1.0	1.0						1.0	2.0
SE				1.0	1.0						1.0	6.3
SSE				1.0	1.0						1.0	6.6
S		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.0	7.8
SSW		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.0
SW		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	6.0
WSW		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
W		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
WNW		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NW		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NNW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VARBL												5.0
CALM												
	1.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.0

TOTAL NUMBER OF OBSERVATIONS 295

SMOS

2

NAVY WEATHER SERVICE
DETACHMENT
AGRICULTURE

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: AGRICULTURE YEARS: 1951-52 MONTH: SEP
STATION NAME: ALL WEATHER CLASS: 00 HOURS: 12-1
CONDITION:

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥36	%	MEAN WIND SPEED
N	3.0	11.5	16.5	6.1	1.1							38.8	7.9
NNE	1.0	6.5	9.4	7.2								20.5	7.8
NE	.7	.7	2.7	1.1								4.7	7.5
ENE	.4	1.4	.4	.7								4.2	6.7
E	1.1	.4										1.5	2.6
ESE	.4	.4	.4									1.1	4.3
SE	.4	.4										.7	3.0
SSE	.7	.4	.7									1.3	5.8
S	1.0	1.1	1.0	1.0	1.1	.4						7.0	9.8
SSW	.7		1.4	2.5	1.4							6.5	12.7
SW	.7	.4	.7	.4								2.2	5.6
WSW													
W													
WNW													
NW	.7	.4	.4									1.1	5.3
NNW	1.1	1.1	1.0	1.4	.4							6.1	9.0
VARB													
CALM												3.0	
	1.0	25.2	36.0	17.6	4.3	.4						100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 274

SMOS

10
2

NAVY WEATHER SERVICE
DETACHMENT
APPROPRIATE

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: JAFB STATION NAME: 11-11 YEARS: SEP MONTH: 17 HOURS: 11 57

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.5	3.0	4.0	2.0							24.1	8.9
NNE	0.0	4.0	4.0	2.0								12.2	9.4
NNE	0.0	4.0	2.0	1.0								9.7	6.1
NNE	0.0	0.0	0.0	0.0								5.4	7.0
E	0.0	0.0	0.0	0.0								4.3	5.3
ESE	0.0	1.0										1.0	5.6
SE	0.0	0.0										0.7	4.0
SSE	0.0	0.0	1.0		0.4							2.2	9.0
S	0.0	0.0	0.0	0.0	1.4							16.2	9.7
SSW	0.0	1.0	3.0	2.0	3.2	0.7						11.5	13.1
SW	0.0	0.0	1.0	0.7	0.7							2.6	11.5
WSW	0.0	1.0										1.0	5.3
W	0.0												
WNW	0.0		0.0									0.7	5.0
NW	0.0		0.0									0.7	4.0
NNW	0.0	1.0	1.0	3.0								5.4	10.9
VARBL													
CALM												1.0	
	7.0	31.7	29.9	21.6	7.9	0.7						100.0	8.8

TOTAL NUMBER OF OBSERVATIONS 276

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
AGRIVILLE, NJ

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION AGRIVILLE, JAPAN STATION NAME 13-62 YEARS 1

ALL WEATHER CLASS 1 MONTH SEP

CONDITION

SPEED (KTS) DIR	1-3	4-6	7-10	11-14	15-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N		4.0	2.0	4.0	.7							18.7	8.8
NNE	1.0	1.0	2.0	1.0	.3	.7						6.7	8.4
NE	.7	1.0	2.0	1.0								5.6	7.8
NNE		1.0	2.0	.7								4.0	7.4
E	1.0	.1	3.0	1.0								7.6	7.8
ESE	.7	.7	3.0									4.0	7.1
SE	.7	1.0	.7									3.1	5.2
SSE	.7	.7	.7	.7								2.1	5.3
S	1.0	3.0	5.0	2.0	1.7	.3						22.2	10.8
SSW	.7	2.0	5.0	4.2	2.1	.7	.3					16.0	10.6
SW				.7	.3							1.0	11.0
WSW			.7									1.0	7.3
W													
WNW		.7										.7	4.0
NW	.7											.7	2.0
NNW		1.0	2.0	1.0								4.5	5.2
VARB													
CALM												.7	
	6.0	22.6	34.2	22.9	5.2	1.0	.3					100.0	8.9

TOTAL NUMBER OF OBSERVATIONS 208

8805

2

NAVAL WEATHER SERVICE
ATTACHMENT
APPROPRIATE

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME
ATOKO, JAPAN

STATION NAME

1954

YEARS

KEP

MONTH

14

HOURLY 14.5

ALL WEATHER
CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-53	≥54	%	MEAN WIND SPEED
N	1.0	5.5	5.7	2.4								14.5	7.3
NNE	1.0	3.4	2.4	.7								7.9	6.3
NE	.7	.7	1.7	1.0								4.1	4.0
ENE	.7	2.1	2.1									5.2	5.7
E		.7	2.0	.3								6.8	6.6
ESE	.1	1.7	.7									4.1	3.6
SE	.7	1.0										1.7	3.4
SSE		1.4	.7									2.1	6.7
S	1.7	17.3	5.7	3.8								21.4	7.3
SSW	1.7	5.5	4.8	4.5	1.4							17.6	8.5
SW	.7	2.4	.3	.7								4.1	6.0
WSW	1.4	.3	.3									2.1	4.0
W	.3	.7										.7	2.5
WNW	.7		.7									1.0	4.3
NW			.7									.3	4.0
NNW	.7	1.4	1.4	1.4								4.5	8.1
VARB													
CALM												1.7	
	10.1	40.0	27.2	14.5	1.4							100.7	6.8

TOTAL NUMBER OF OBSERVATIONS

290

SMOS

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

REF

DATE

ALL WEATHER

CLASS

21

NUMBER OF

CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-53	≥54	%	MEAN WIND SPEED
N	2.0	0.0	0.0	0.0	0.0							26.1	6.9
NNE	0.0	0.0	0.0	0.0	0.0							9.0	6.4
NE	1.0	1.0	1.0									4.2	4.7
NNE	0.0	1.0										1.0	3.8
E	0.0	0.0	0.0									4.0	3.3
ESE	1.0	1.0	0.0									3.0	4.4
SE	0.0											0.7	3.0
SSE	1.0	2.0			0.0				0.0			3.0	8.6
S	1.0	0.0	1.0	2.0	0.0							12.7	6.8
SSW	0.0	1.0	4.0	2.0	0.0							10.6	9.6
SW	0.0	1.0	0.0	0.0								2.9	6.4
WSW	0.0	1.0	0.0									1.0	4.2
W	1.0											1.1	1.0
WNW													
NW	0.0	0.0										1.1	2.7
NNW	1.0	2.0	2.0	0.0								6.3	6.1
VARB												10.5	
CALM													
	10.0	34.0	23.6	17.2	1.4				0.4			100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

294

SMOS

2

NAVAL WEATHER SERVICE
ATTACHMENT
AMEMB, TOKYO

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 101, JAPAN STATION NAME 73-20 YEARS SEP
CLASS ALL WEATHER MONTH ALL
CREDIT NOV 1957

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.4	11.7	11.2	4.7	.8							30.7	7.3
NNE	1.2	4.5	3.6	1.5	.7	.7						10.7	7.1
NE	1.0	1.5	1.5	.6								4.6	6.2
NNE	.1	1.3	1.1	.7								3.1	6.4
E	1.0	1.1	1.0	.2								3.8	5.4
ESE	.7	.7	.1									2.3	5.1
SE	.1	.5	.1									1.6	4.5
SSE	.1	.9	.7	.1	.1				.7			2.3	6.8
S	1.2	4.4	3.2	3.6	.7	.1						13.3	4.8
SSW	.1	1.5	3.3	2.6	1.3	.7	.4					10.1	10.2
SW	.1	.7	.4	.3	.1							2.2	7.1
WSW	.1	.1	.7									1.1	4.6
W	.1	.1										.7	1.5
WNW	.4	.1	.1									.6	3.6
NW	.4	.4	.1									1.0	4.6
NNW	1.4	1.7	2.7	1.5	.1							7.8	7.5
VARB												5.1	
CALM													
	14.4	32.4	29.6	14.7	3.2	.4	.0		.7			100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 2037

BMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ATS. VI. JAR. AL. STATION NAME 76-9. YEARS 001
ALL WEATHER MONTH 00
 CLASS 00
 CONDITION 00

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	7.5	31.5	1.7	2.2		.5						53.5	5.7
NNE	.5	4.3	4.3	.5			.5					10.2	7.5
NE	.5	.5	1.1	.5								2.7	6.6
ENE													
E	.5											.5	2.0
ESE													
SE													
SSE	.5	.5										1.1	3.5
S	.5		.5	1.1								2.1	9.5
SSW	1.1	2.1			1.1							4.3	8.0
SW			.5	.5	.5							1.5	13.0
WSW	.5											.5	2.0
W													
WWW	1.1											1.1	1.5
NW	.5	1.5	.5									2.7	5.0
NNW	1.1	5.7	6.4	1.1								14.4	6.7
VARB.													
CALM												5.3	
	14.4	46.5	24.1	7.0	1.6	.5	.5					100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 187

8808

10
2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME ASHEVILLE YEAR 76-81 MONTH OCT
 CLASS ALL WEATHER HOUR 27
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0.3	27.5	10.2	2.7	1.1	.5						40.4	6.2
NNE	0.2	5.5	3.3	1.1								12.1	6.5
NE	0.1	2.7										2.7	4.6
ENE													
E													
ESE													
SE													
SSE													
S				.5		.5	.5					1.4	21.3
SSW		1.1	1.1			.5						2.7	10.4
SW		.5	1.1									1.6	7.0
WSW													
W													
WWW	1.1											1.1	2.0
NW	.5		1.1	1.1								3.3	8.8
NNW	0.3	2.7	2.7	1.1								6.3	6.5
VARS													
CALM												4.9	
	10.5	39.6	29.1	6.6	1.1	1.4	.5					100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 182

8806

NAVY AND AIR FORCE DIVISION
OF THE DEPARTMENT OF
ARMY AND NAVY

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	A 301, JAPAN	17-31	DOY
STATION NAME		YEARS	MONTH
	ALL WEATHER		OF
	CLASS		HOUSE (L S T)
	COMMITTEE		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.4	27.4	2.8	.3	.3						52.4	6.7
NNE	3.5	2.4	3.5	1.7	.3							15.7	6.1
NE	1.0	1.0	1.4	.3								4.5	6.0
ENE													
E	.7											.7	2.0
ESE													
SE													
SSE													
S	.7	.3			.3							1.0	7.3
SSW			.7	1.0								1.7	10.6
SW		.5	.7									1.0	7.0
WSW	.5			.7								.7	7.0
W	.5			.3								.7	7.5
WWW	1.0											1.0	1.3
NW	.7	1.7	.3									2.5	4.6
NNW	1.0	3.5	5.4	1.7	.3							12.2	7.5
VARI													
CALM												2.5	
	14.2	37.8	35.1	8.3	1.4	.3						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 298

SMOS

2

NAVAL WEATHER SERVICE
DEPARTMENT
ARMY COLLECTION

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: A 5131, J3-A1 STATION NAME: YEARS: 77-82

ALL WEATHER
CLAS

CONDITION

DOY: 007
MONTH: OCT
YEAR: 82
HOURS: 11:57

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.2	11.7	26.7	8.1	1.1							65.3	8.3
NNE	.2	4.5	7.8	5.3	.4							20.2	8.5
NE	1.1	1.1	1.1	2.1								6.4	8.2
NNE	.2	.2	.7									1.4	5.3
E	.2	1.1										1.7	3.4
ESE	.2											.7	1.5
SE													
SSE	.2											.4	2.0
S	.2	.2		.7		.4						2.1	9.7
SSW			.2	1.1	1.1							2.5	13.5
SW	.2	.2		.4								1.4	5.0
WSW	.2	.2		.7								1.8	7.4
W													
WNW		.2										.4	4.0
NW	.2	.2		.4								1.4	7.3
NNW	.2	1.1	1.1	2.1								6.7	8.5
VARBL												1.1	
CALM													
	12.1	22.6	36.6	27.8	2.5	.4						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS 293

SMO's

2

NAVAL WEATHER SERVICE
ATTACHMENT
ASBESTOS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: A 6021 JAPAN STATION NAME: YEARS: 201 MONTH: 17
ALL WEATHER CLASS: NONE (1.5 T)
CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	4.4	1.0	11.4	.7							30.4	9.4
NNE	1.0	6.4	1.0	3.6	1.9	.4						23.7	6.8
NE	1.1	3.0	4.0	1.1								10.7	7.0
ENE	.7	2.1	2.1		.4							5.4	6.9
E	.4	1.0	.4									2.5	5.1
ESE	1.1	1.1	.4									2.5	3.7
SE	.4											.4	3.6
SSE	1.1	2.0	.4	.4			.4					5.0	6.9
S	.7	.7	1.0	1.1	.7							5.7	9.7
SSW	.0	1.0	1.0	3.6		.4						7.1	11.1
SW		.0				.4						.7	15.0
WSW	.0	.0				.4						1.1	10.0
W													
WNW													
NW													
NNW	.0	.7	1.0	.7	.4							3.7	6.1
VARB												1.4	
CALM													
	.0	28.2	33.2	21.8	3.9	1.4	.4					100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 200

SMOS

10
2

NAVAL WEATHER SERVICE
PACIFIC FLEET
ATMOSPHERIC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 21 10 00-AN STATION NAME 73-80 YEARS 1957
 ALL WEATHER CLAS 1
 COORDINATE 17 00 N 155 00 W

SPEED (KTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	4.0	3.0	6.3	1.0							17.6	9.3
NNE		0.0	4.0	3.0	1.0							14.0	5.3
NE	0.0	3.0	5.0	2.0								11.0	7.0
ENE	0.0	1.0	1.0	0.4								3.0	7.1
E	0.1	1.4	4.0	0.4								5.9	6.4
ESE	0.0	2.0	2.0									4.0	6.6
SE	0.0	2.0	1.0									3.0	5.9
SSE	0.0	1.0	0.0	0.4								2.0	7.5
S	1.0	2.0	1.0	1.4	0.7							13.0	5.3
SSW	0.0	0.0	0.0	0.0	0.7	0.4						10.0	15.4
SW	0.0	0.0	0.0	0.4	1.0							1.0	15.2
WSW	0.0	0.0	0.0	0.0	0.4							0.0	14.0
W	0.0	0.0	0.0	0.0	0.0							0.0	15.0
WNW	0.0	0.0	0.0	0.0	0.0							0.0	15.0
NW	0.0	0.0	0.0	0.0	0.0							0.0	14.0
NNW	0.0	1.0	1.0	1.0	0.0							3.0	8.0
VARBL												1.0	
CALM												1.0	
	0.4	7.0	35.0	20.0	4.0	0.4						10.0	8.4

TOTAL NUMBER OF OBSERVATIONS 200

SMOS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STAT 100

STATION NAME

1489

— — —

0947

ALL CATHOLICS.

CLASS

12

1994

CONCLUSION

[illegible]

TOTAL NUMBER OF OBSERVATIONS

247

SMAOS

2

NAVAL WEATHER SERVICE
STATION REPORT
AT 11-11-11PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

11-11-11

STATION NAME

11-11-11

YEARS

11-11-11

MONTH

11

HOURS

ALL SEATING
CLASS

CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	10.1	6.4
NNE	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	14.1	6.7
NE	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	6.5
ENE	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	3.6
E	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	4.5
ESE	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.6
SE	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	4.5
SSE	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	4.5
S	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	5.5
SSW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	5.7
SW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	5.7
WSW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	4.5
W	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	4.5
WNW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	5.5
NW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.5
NNW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	6.4
VARBL	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	8.7
CALM	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	5.6
	24.3	35.0	22.0	7.1	1.0	1.4	1.4	1.4	1.4	1.4	1.4	10.0	5.6

TOTAL NUMBER OF OBSERVATIONS

200

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME
ASHEVILLE, JAPAN

STATION NAME

1950

YEARS

MONTH

ALL WEATHER
CLAS

ALL
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.4	14.4	13.6	5.2	0.7	0.7	0.1					38.5	7.3
NNE	0.2	5.6	3.1	2.6	0.7	0.7	0.7					16.2	7.6
NE	1.1	2.1	2.7	0.6								6.2	6.9
ENE	0.1	1.1	0.7	0.1	0.7							2.6	6.1
E	1.1	1.1	1.1	0.1								3.1	5.4
ESE	0.1	0.4	0.7									1.7	5.3
SE	0.7	0.4	0.7	0.7								0.9	5.2
SSE	0.7	0.4	0.1	0.7			0.7					1.5	6.1
S	1.1	1.7	1.6	0.7	0.3	0.1	0.7					5.1	7.9
SSW	0.7	1.7	0.7	1.6	0.5	0.1						5.7	9.6
SW	0.7	0.7	0.7	0.7	0.7	0.7						2.7	7.4
WSW	0.7	0.4	0.1	0.7	0.7	0.7						1.4	6.5
W	0.7			0.7								0.7	4.4
WNW	0.7	0.1		0.7								0.7	3.7
NW	0.7	0.4	0.4	0.1								2.2	5.0
NNW	1.1	2.1	3.1	1.4	0.1							8.3	7.4
VARS													
CALM												4.1	
	1.4	33.3	30.4	13.5	2.5	0.6	0.2					10.7	6.9

TOTAL NUMBER OF OBSERVATIONS

2072

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
AGRIVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 01012, JAPA

STATION NAME

76-1

YEARS

NOV

MONTH

ALL WEATHER

CLASS

10

HOURLY (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	21.1	17.7	2.0	.6							54.0	5.9
NNE	1.0	2.0	2.4	.6								5.6	6.2
NE		1.1	.0									1.7	6.0
ENE		1.1		.6								1.7	6.7
E			.0									.6	10.0
ESE													
SE													
SSE			.0									.6	8.0
S	.1	.0	.0	.6								2.0	6.2
SSW		1.1	1.1	.6	.6							3.4	10.8
SW		.0	1.1									1.7	7.0
WSW													
W	.1											1.1	1.5
WNW		.0										.6	4.0
NW	.1											1.1	3.0
NNW	.4	7.4	2.7	.6								14.0	5.3
VARIABLE													
CALM												6.9	
	1.1	36.6	28.6	5.7	1.1							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

175

8808

2

NAVAL WEATHER SERVICE
ATTACHMENT
AND FIELD NO.

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME 8551, JAPA YEARS 76-77 MONTH NOV
CLASS ALL WEATHER MONTH 03
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	23.1	15.6	6.0								53.8	6.1
NNE	.4	4.0	4.3	1.1								15.6	5.6
NE	.	.	1.1									2.2	5.5
NNE	.	.										.5	4.0
E													
ESE													
SE													
SSE													
S				1.1								1.1	12.5
SSW	.	.	1.1									2.7	5.8
SW		.		.5								1.1	10.5
WSW													
W		.										.5	4.0
WNW	.											.5	1.0
NW	.	1.1										1.1	3.3
NNW	.1	4.0	2.2									10.8	5.5
VARS													
CALM												9.7	
	1.4	36.6	25.2	9.6								10.0	5.4

TOTAL NUMBER OF OBSERVATIONS 196

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
AGRIKUL, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 17-00, JAPAN STATION NAME 17-00 YEARS NGV
STATION CODE 06
CLASS ALL WEATHER
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.3	21.1	15.5	5.1	.7							51.2	5.8
NNE	.7	2.3	3.5	.7	.4							13.7	5.9
NE	1.0	1.0	.7	.4								4.2	5.3
ENE	.7											.7	2.0
E													
ESE	.4											.4	1.0
SE	.4		.4									.7	3.0
SSE													
S	.4	.4	.4	.4			.4					1.3	11.8
SSW		.7	.4	1.1								2.1	9.1
SW			.4	.4								.7	11.5
WSW			.4									.4	9.0
W													
WNW	.7	.4										1.1	3.0
NW	1.4	1.4										2.0	3.3
NNW	1.0	.4	.7	1.1	.4							12.7	6.8
VARL												.7	
CALM													
	22.2	3.0	25.0	6.0	1.4		.4					100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 294

SMOS

2

NATIONAL WEATHER SERVICE
METEOROLOGICAL
ADMINISTRATIVE

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ATSUMI, JAPAN STATION NAME 73-4 YEARS NOV

ALL WEATHER

CLAS

NOV
09
NOVEMBER

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.4	14.3	19.5	6.2	1.1							44.1	7.6
NNE	2.4	14.3	5.1	2.9	.7							21.7	7.1
NE	.7	2.2	2.2									5.1	6.3
ENE	1.1	.7	.7									2.6	4.0
E	.7	.7										1.1	4.3
ESE	.4											.4	2.0
SE	.4											.4	3.7
SSE	.4	.4										.7	3.5
S	.7			.4								1.1	6.3
SSW		.4		1.1	.4	.4						2.2	14.8
SW	.4	.7	.7	.4		.7						2.9	11.3
WSW													
W		.4										.4	5.0
WW			.4									.4	9.0
NW	1.0	.4		.4								2.2	4.7
NNW	1.1	2.2	2.2	2.2	.4							9.2	8.5
VARS													
CALM												5.3	
	12.0	32.7	32.0	13.6	2.6	1.1						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 272

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NO. 1051, JAPAN STATION NAME ST-P. YEARS NOV
 CLASS ALL WEATHER MONTHS 17
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N		1.6	1.4	1.4	1.5	.4						25.2	10.3
NNE	.1	.2	6.0	3.7	.4							19.3	6.4
NE		5.2	4.0	1.1								11.5	7.4
NNE	1.1	1.5	1.1	.4								4.8	5.1
E	1.1	1.1	.7									3.6	4.8
ESE	.4	1.1										1.9	4.6
SE	1.1	1.1	.4									2.6	4.3
SSE	1.1	2.2										3.3	4.0
S	1.1	2.2	2.4	3.1								9.3	6.4
SSW	.4	.4	2.7	3.3	1.5	.4	.4					8.5	13.3
SW			.7	1.1	1.1							3.0	14.8
WSW													
W				.4								.4	15.0
WNW													
NW													
NNW		.1	2.2	1.5	.7							4.4	10.8
VARB													
CALM												2.6	
	.5	21.7	34.1	21.9	5.2	.7	.4					100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 270

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, NC STATION NAME 13-42 YEARS NCV
ALL WEATHER CLAS 15
COGNITION HOURLY

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	4.7	6.7	5.1	1.1	.7						20.4	9.7
NNE	1.1	3.4	5.4	4.7	.4							14.5	8.8
NE	1.1	3.4	4.4	1.1								10.2	7.0
NNE	.7	1.1	2.1									5.1	6.3
E	1.1	1.1	1.1									4.7	4.8
ESE		1.1	2.1									3.4	6.7
SE	.7	1.1	1.1									4.0	5.6
SSE	.7	1.1	.4									2.9	4.8
S	1.1	4.7	5.1	3.3								13.5	8.0
SSW	.4	2.5	3.3	2.5	.7							9.5	9.3
SW		.4	.7	1.5	1.8	.4						4.7	15.4
WSW				.4	.4							.7	16.5
W				.7								.7	12.5
WWW		.4										.4	4.0
NW			.4	.4								.7	12.0
NNW		.4		1.1	.4							1.1	12.8
VARL												2.5	
CALM													
	.4	27.6	35.6	20.0	4.7	1.1						100.0	8.3

TOTAL NUMBER OF OBSERVATIONS 275

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: ATAMI, JAPAN STATION NAME: ATAMI YEARS: 73-81 MONTH: NOV
CLAS: 1P
CORRECTION: HOUSE 11.5

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.1	12.4	6.5	2.9	1.1							70.7	7.0
NNE	1.0	6.7	3.6	1.5								13.1	6.8
NE	1.0	1.5	1.1	1.1								5.5	6.1
ENE	1.0	2.2	.7									4.4	4.5
E	1.1	2.2	.7									4.0	4.7
ESE	.5	1.5										1.5	4.6
SE	.7	1.1										1.8	3.0
SSE	1.1	.7										1.0	3.4
S	.7	1.1	1.5		.7							4.0	3.4
SSW	1.0	2.2	1.1	2.2								7.3	7.1
SW	1.1	1.1	.4	.7	.4							3.6	8.1
WSW	.7	.7	.7	1.5								3.6	7.9
W	.7											.7	2.0
WNW	.4											.4	3.0
NW	.7	.7		.4								1.8	5.2
NNW	.5	2.2	2.2	1.5								6.4	8.0
VARBL													
CALM												8.4	
	70.0	36.0	21.5	12.0	2.2							170.0	6.1

TOTAL NUMBER OF OBSERVATIONS: 275

8806

2

NAVAL WEATHER SERVICE
DETACHMENT
ASBESTUS, NJ

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASBESTUS, NJ STATION NAME ASBESTUS YEARS 73-97 MONTH NOV
 CLASS ALL WEATHER MONTH NOV
 CONDITION 21
 HOURS 11 57

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	13.0	14.7	4.0								79.1	6.7
NNE	0.0	4.1	5.6	1.0	0.4							14.1	7.1
NE	0.0	2.3	0.4	0.4								3.0	5.1
ENE	0.0	0.4	0.4									1.1	4.3
E	0.4	0.4										0.7	3.0
ESE													
SE	0.0											0.4	3.0
SSE												0.0	4.0
S	0.0	0.4	0.4									1.0	3.8
SSW	0.0	1.1	1.1	1.0								4.1	2.9
SW	0.0	0.4	0.4	0.4								1.5	7.3
WSW	0.0	0.4	0.4	0.4								1.0	7.9
W	0.0			0.4								1.1	6.7
WNW	1.1		0.4									1.0	4.4
NW	0.0	1.0		0.4								7.1	4.1
NNW	1.0	6.0	5.3	1.0								15.3	6.5
VARIABLE												0.3	
CALM													
	10.2	33.0	29.7	11.7	0.4							100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 266

SMOS

NATIONAL WEATHER SERVICE
DEPARTMENT OF COMMERCE
ATLANTA, GA

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NO. 73-5 STATION NAME ATC 3, JAPAN YEARS 1951-52 MONTH ALL
CLASS ALL WEATHER HOURS 11.5.7
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	17.2	13.4	4.7	.9	.1						38.7	7.1
NNE	.7	5.6	5.1	2.1	.3							15.4	7.2
NE	.	2.1	2.1	.5								5.2	6.5
ENE	.	1.1	.	.1								2.7	5.0
E	.	.	.4									1.9	4.8
ESE	.	.	.4									1.1	5.3
SE	.	.7	.3									1.3	4.6
SSE	.4	.7	.1									1.3	4.2
S	.7	1.2	1.4	1.1	.1		.7					4.6	8.1
SSW	.4	1.1	1.3	1.6	.4	.1	.7					5.1	10.0
SW	.	.4	.5	.5	.4	.1						2.3	11.6
WSW	.1	.1	.	.3	.7							.9	8.8
W	.	.1	.	.3								.5	6.3
WNW	.1	.1	.1									.4	4.0
NW	1.2	.7	.	.2								2.3	4.4
NNW	.2	3.4	2.4	1.3	.2							9.2	7.2
VARBL													
CALM												5.4	
	1.1	33.3	26.2	12.9	2.3	.4	.1					100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 2003

2

NAVAL WEATHER SERVICE
DETACHMENT
ASAGATSUBO, JAPAN

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASAGATSUBO, JAPAN STATION NAME 26-5 YEARS 1961
 CLASS ALL WEATHER MONTH DEC
 HOURS 12
 CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	10.0	11.7	7.3								43.7	5.7
NNE	1.0	7.3	7.3	1.7								4.3	7.4
NE	.7			.7								2.7	4.8
ENE	.7											.7	2.0
E	.7											.7	1.0
ESE													
SE													
SSE													
S													
SSW		1.0			.7							2.7	7.3
SW		.7	.7	.7								2.7	5.7
WSW	.7	.7										1.7	3.5
W		1.0	.7									2.7	5.7
WNW	.7	.7		.7								2.7	7.3
NW	1.0	7.3	.7									5.7	4.3
NNW	3.3	10.0	.7	.7								19.0	5.7
VARA													
CALM												8.0	
	10.0	41.1	22.0	7.3	.7							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 101

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ATOKU, JAPAN

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: ATOKU, JAPAN STATION NAME: 26-50 YEARS: 1950
ALL WEATHER CLASS: 01
CONDITION: 01
MONTH: 01
NOVEMBER

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	11.7	1.0	2.0	4.0								42.7	5.5
NNE	1.7	2.3	2.7	3.3								18.7	6.0
NE	1.0		2.7									2.0	4.3
ENE	1.0											1.7	2.5
E	1.0											1.7	2.5
ESE													
SE													
SSE													
S													
SSW			1.0		.7							2.0	11.7
SW				.7	.7							1.7	15.5
WSW	.7		.7	.7	.7							2.0	7.7
W		1.0	.7	.7	.7							2.7	8.0
WNW		.7		.7	.7							1.7	2.0
NW	.7	2.3										5.3	3.9
NNW	.7	4.7	4.7	.7								13.7	5.7
VABDL													
CALM												6.7	
	1.0	34.0	19.3	10.7	1.3							10.0	5.4

TOTAL NUMBER OF OBSERVATIONS 150

SMOS

2

UNITED STATES DEPARTMENT OF COMMERCE
BUREAU OF MARINE WEATHER SERVICE

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

STATION NAME

ALL STATIONS
CLASS

YEARS

DATE

HOUSE NO.

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0.2	10.7	11.0	0.0	0.4							1.0	5.2
NNE	0.5	0.0	4.4	2.0	0.4							1.0	5.0
NE	1.2	1.2										2.0	3.7
ENE	0.0											0.0	3.0
E	0.0											0.0	2.0
ESE		0.0										0.0	4.0
SE												0.0	
SSE												0.0	12.0
S				0.0								0.0	12.0
SSW		0.0	1.0	0.0	0.0							2.0	10.0
SW			0.0	0.0								0.0	10.0
WSW		0.0	1.0									1.0	8.0
W	0.0	0.0		0.0								1.0	8.0
WNW	1.2	1.2										2.0	4.0
NW	0.0	2.0	0.0									3.0	4.0
NNW	0.0	1.0	7.0									1.0	5.0
VARS												0.0	
CALM												0.0	
	22.0	40.5	23.0	4.0	1.6							110.0	5.2

TOTAL NUMBER OF OBSERVATIONS

254

SMOS

10
2

STATION NAME
STATION NAME
STATION NAME

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION A 00, JAB A 17-2 YEARS NORTH HOUSE 11.5 T
ALL WEATHER CLASS
CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N		16.7	17.4	3.5	1.2							42.5	6.6
NNE	1.1	4.1	7.4	1.4								18.1	6.2
NE		1.1	1.4									6.6	4.8
ENE		1.5		1.4								3.1	4.5
E		5.7										5.7	3.6
ESE													
SE												5.7	2.4
SSE				1.4								5.7	7.1
S					4.1							2.3	7.2
SSW				1.4								1.1	6.3
SW			1.4	1.4	1.4							2.7	14.5
WSW				1.4								5.7	11.7
W												5.7	4.2
WNW					1.4							1.2	5.3
NW				1.4								2.3	6.2
NNW	1.1	7.4	7.4	1.4								16.5	6.1
VARBL													
CALM												2.7	
	1.1	37.1	26.7	2.5	2.7							10.7	5.8

TOTAL NUMBER OF OBSERVATIONS 254

SMOS

2

NAVAL WEATHER SERVICE
17-00-00
ASIA 000000

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

0:0
GORT

ALL WEATHER
CLAM

17
MOVES 11.5 T

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-53	≥54	%	MEAN WIND SPEED
N	1.0	8.1	0.1	5.0								18.8	7.8
NNE			0.1	2.7	1.1							17.2	9.0
NE		0.1	0.4	1.0								14.0	6.9
NNE		7.4	1.0									7.7	4.9
E	1.0	2.7										4.2	3.6
ESE			0.1									1.0	4.6
SE												1.0	5.3
SSE	1.0	1.0		0.4								3.0	4.6
S		2.3	7.4	0.1	0.4							7.7	7.0
SSW		1.0	1.1		0.4	0.4						4.6	5.8
SW			1.1	2.3	1.1	0.1						5.7	15.1
WSW			1.1	0.1	0.4							3.1	10.0
W		0.1										1.1	2.3
WWW												0.4	1.0
NW												0.4	4.0
NNW	0.1	0.1	1.0	0.1								3.1	5.4
VABL													
CALM												4.0	
	1.4	31.0	31.4	15.3	3.4	1.1						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

241

SMOS

11
2

NAVY WEATHER SERVICE
DEPARTMENT
AFRICANA

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

STATION NAME

ALL WEATHER
CLASS

YEARS

DEC
MONTH

19

NOVEMBER

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.1	1.2	2.4	.4	.4						10.2	9.5
NNE	.1	4.6	4.5	3.4	.7							13.7	8.6
NE	.1	4.6	3.7	1.1								10.1	7.0
ENE	.1	2.1	.7	.4								8.2	5.6
E	.2	.1	1.1									9.4	4.7
ESE	1.1	2.2	.7									4.5	4.3
SE	1.1	1.1	1.1									4.1	5.6
SSE	.1	2.1	1.1	.4								4.7	5.8
S	.1	2.2	.4	1.0	.7							13.2	8.9
SSW	.1	4.1	.7	3.1	1.7							10.1	10.7
SW	.1			2.1	.7	.7						4.5	15.1
WSW													
W	.7	.7	.1									1.5	5.5
WNW				.7	.4							1.1	14.7
NW			.1									.4	5.0
NNW	.1	.1	.1	.4								1.5	8.5
VARBL													
CALM												1.1	
	17.0	12.7	31.1	16.5	4.0	1.1						100.2	7.7

TOTAL NUMBER OF OBSERVATIONS

267

SMOS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	STATION NAME	YEARS	DEC MONTH
	ALL WEATHER		19
	CLASS		HOURS CL 0 T
CONDITION			

[illegible]

TOTAL NUMBER OF OBSERVATIONS 270

SMO'S



2

10-11-12

NAVAL WEATHER SERVICE
STATION REPORT
WIND, SURFACEPERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION	10-11-12 JAPAN	73-37	080
STATION NAME		YEARS	MONTH
	ALL WEATHER		21
	CLAS		NOV 11 1971
	CONDITION		

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	14.0	7.1	1.7								70.0	5.6
NNE	.1	.7	5.4	1.7	.4							16.2	6.9
NE		2.0	2.1									5.7	6.5
ENE		.2	.2									2.0	5.0
E													
ESE	.1											.4	2.0
SE													
SSE	.1											.5	1.0
S	.7	.4										1.7	3.0
SSW	.1	.1	.1	1.7	.2							4.2	3.8
SW			.1	1.7								2.1	11.2
WSW		1.7	.1									2.1	5.8
W	.2		1.7									2.0	5.1
WNW	.1	1.7										3.3	3.1
NW	1.7	2.0										3.7	3.9
NNW	.4	0.3	1.7	1.7	.4							16.7	5.0
VARB													
CALM												8.3	
	22.0	47.0	20.4	7.1	1.7							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 240

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHTABUL, OH

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHTABUL, OH DATE: 12-24-50
STATION NAME: ALL WEATHER CLAS
YEAR: 1950
DEC MONTH: ALL
HOURS: 1-5

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-53	≥54	%	MEAN WIND SPEED
N	0.0	12.6	8.7	2.6	.4	.1						10.1	6.3
NNE	0.3	.0	5.0	2.2	.4							16.2	7.1
NE	1.4	2.6	2.0	.7								6.7	6.4
ENE	1.4	1.7	.0	.0								4.0	4.9
E	1.1	1.0	.5									3.6	4.0
ESE	.0	.6	.0									1.2	4.1
SE	.0	.4	.0									1.0	5.1
SSE	.0	.0	.0	.2								1.0	5.1
S	.0	1.0	1.0	.5	.3							4.4	7.8
SSW	.0	1.3	.0	1.1	.6	.1						4.4	9.9
SW	.0	.0	1.0	1.1	.5	.2						3.2	12.6
WSW	.0	.4	.0	.4	.1							1.7	8.4
W	.0	.0	.4	.2								1.6	5.7
WNW	.0	.6	.1	.2	.1							1.6	5.9
NW	.0	1.0	.0	.1								2.7	4.7
NNW	0.1	3.0	2.0	.6	.1							8.9	5.6
VARB												7.5	
CALM													
	1.0	35.7	25.1	10.4	2.5	.3						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 1950

8805

NAVAL WEATHER SERVICE
DETACHMENT
ATRIVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION: ATRIVILLE, JAPAN STATION NAME: ATRIVILLE YEARS: 1950-52 ALL MONTHS: ALL

ALL WEATHER CLASS: ALL ALL HOURS: ALL

CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	7.0	4.4	6.0	4.1	5.5	5.1	5.0	5.0	5.0	5.0	5.0	26.7	7.2
NNE	5.0	4.0	4.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	12.4	7.3
NE	5.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.3	6.5
ENE	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	5.7
E	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.3	5.4
ESE	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	1.7	5.3
SE	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	1.4	5.0
SSE	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	2.0	6.4
S	1.0	5.0	5.0	4.1	1.0	5.0	5.0	5.0	5.0	5.0	5.0	16.0	9.3
SSW	5.0	1.0	2.0	2.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	8.3	10.3
SW	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.0	9.9
WSW	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	1.3	7.3
W	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.8
WNW	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5
NW	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	1.0	4.8
NNW	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.9
VARB													
CALM												6.0	
	15.0	22.4	21.4	16.2	3.3	5.0	5.0	5.0	5.0	5.0	5.0	100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 23404

SMOS

2

NATIONAL WEATHER SERVICE
METEOROLOGICAL
ADMINISTRATION

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION AS 014 0174 STATION NAME 17-42 YEARS ALL
INSTRUMENT CLAS MONTH ALL
CLASS CLAS HOURS 1-24
CONDITION 016 200 TO 1400 FT W/VSEY 1/2 MI OR MORE
AD FOR VSEY 1/2 TO 2-1/2 MI W/016 200 FT OR MORE

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.6	12.6	12.2	6.9	.9	.0	.0					36.4	7.4
NNE	.7	5.4	3.0	1.2	.1		.0					13.3	6.1
NE	1.0	1.0	1.1	.2	.0							4.3	5.2
NNE	.7	.7	.4	.1								2.3	4.8
E	.7	.7	.2	.1								1.9	4.9
ESE	.4	.3	.7	.0		.0						.9	5.0
SE	.4	.4	.1	.0	.0	.0						1.0	4.9
SSE	.7	.7	.2	.2	.1	.0	.0	.0	.0			2.0	4.2
S	1.0	1.0	1.0	1.6	.8	.4	.2	.0				6.4	9.5
SSW	.7	1.4	.7	.5	.3	.1	.0	.0				4.1	7.8
SW	.7	.4	.1	.1		.0		.0				1.2	5.3
WSW	.7	.7	.7	.0								.7	3.7
W	.7	.1	.1	.0								.7	3.1
WNW	.7	.1	.1	.0								.7	2.9
NW	.7	.6	.1	.2	.0							1.0	5.0
NNW	1.0	2.3	2.2	1.8	.5	.0						6.3	8.2
VARB													
CALM												9.0	
	27.0	30.0	23.7	13.1	2.9	.7	.3	.1	.0			100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 4110

SMOS

South Federal Building
Asheville, N. C.

PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By Month - all years and all hours combined
3. By Month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

Beginning in July 1948 for Air Force stations and January 1949 for NWS and U.S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

F. N. - FEET	VISIBILITY - STATUTE MILES															
	10	6	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	1/2	5/16	1/8	0	
1800																
1600																
1400																
1200																
1000																
800																
600																
400																
200																
0																

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0 .
For instance, from the table: Ceiling ≥ 1500 feet = 92.6%.
Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0 . From the table:
Visibility ≥ 3 miles = 95.4%.
Visibility ≥ 2 miles = 96.9%.
Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

PART D

ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%. Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of ≥ 1500 feet with ≥ 3 miles, subtracted from 97.4 read from the table at the intersection of ≥ 500 feet with ≥ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling ≥ 500 feet with visibility ≥ 1 mile, but < 3 miles; or ceiling ≥ 500 feet, but < 1500 feet with visibility ≥ 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

PART D

SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover and total number of observations. It is presented in two tables as follows:

1. by month and annual - all hours and all years combined.
2. by tenths - by standard 3-hour groups.

Note: (1) Sky cover (total cloud amount) was not reported by U.S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

Note: (2) Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

OKTAS	TENTHS
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8 (or obscured)	10

Note: (3) Beginning in 1981 the symbols of Clear, Scattered, Broken, Overcast, and Obscured were used as input for the Total Sky Cover. Following are the conversions:

Clear converted to 0/10
Scattered converted to 1-4/10
Broken converted to 5-7/10
Overcast converted to 8-10/10
Obscured converted to 10/10

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE, U.S. NAVY, WASHINGTON, D.C.

STATION

STATION NAME

7-

YEAR

JAN

MONTH

NO

HOUSE NO.

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
≥ 20000	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 18000	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 16000	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 14000	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 12000	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 10000	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 9000	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 8000	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 7000	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 6000	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 5000	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 4500	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 4000	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 3500	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 3000	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 2500	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 2000	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 1800	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 1500	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 1200	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 1000	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 900	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 800	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 700	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 600	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 500	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 400	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 300	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 200	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 100	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0
IV 0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0

TOTAL NUMBER OF OBSERVATIONS

142

DIRNAVCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION NAME: STATION NAME: YEAR: MONTH: HOURS:

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
≥ 20000	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
18000	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
16000	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
14000	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
12000	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
10000	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
9000	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
8000	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
7000	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
6000	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
5000	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
4500	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
4000	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
3500	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
3000	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2500	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2000	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
1800	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
1500	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
1200	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
1000	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
900	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
800	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
700	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
600	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
500	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
400	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
300	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
200	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
100	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
0	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8

TOTAL NUMBER OF OBSERVATIONS: 127

DIRNAVCEANMET SMUS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .025	≥ .01
NO CEILING	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 20000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 18000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 16000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 14000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 12000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 10000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 9000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 8000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 7000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 6000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 4500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 4000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 3000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 2500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 2000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 1800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 1500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 1200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 1000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 900	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 800	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 700	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 600	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 300	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 200	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
≥ 0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

254

FORM 4-64 (REV. 1-63)

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NOVEMBER

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.0	≥ 0.5	≥ 0.25	≥ 0.15	≥ 0.10	≥ 0.05	≥ 0.025	≥ 0.01
NO CEILING	6.8	42.8	4.7	5.7	58.1	19.5	60.4	11.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 20000	6.8	42.8	5.0	5.1	63.5	65.3	66.4	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 18000	6.8	42.8	50.4	55.1	63.5	65.3	66.4	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 16000	6.8	42.8	50.4	55.1	63.5	65.3	66.4	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 14000	6.8	42.8	5.7	5.5	64.2	66.1	67.2	65.3	67.2	68.3	67.2	67.2	67.2	67.2	67.2	67.2
≥ 12000	6.8	42.8	51.7	54.6	58.1	67.4	69.2	7.1	77.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 10000	6.8	42.8	54.4	58.1	69.2	70.3	71.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥ 9000	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 8000	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 7000	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 6000	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 5000	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 4300	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 4000	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 3500	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 3000	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 2500	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 2000	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 1800	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 1500	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 1200	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 1000	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 900	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 800	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 700	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 600	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 500	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 400	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 300	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 200	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 100	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 0	6.8	42.8	54.4	58.1	69.2	70.3	72.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4

TOTAL NUMBER OF OBSERVATIONS 270

DIRNAVCEANMET SMUS

$$A_{\alpha} = \{x \in X : |f(x)| > \alpha\} = \bigcup_{n=1}^{\infty} A_n(\alpha), \quad A_n(\alpha) = \{x \in X : |f(x)| > \alpha, n \leq f(x) \leq n+1\}$$


NOV 26 1957

TOTAL NUMBER OF OBSERVATIONS 295

DATE: 10/10/1964

CEILING VERSUS VISIBILITY

STATION NAME: STATION NAME YEAR JAN
 PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)
 11
 11

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING	61.7	7.0	57.8	1.0	61.1	61.0	61.0	61.0	61.7	61.0	61.0	61.0	61.0	61.0	61.7	61.7
≥ 20000	4.0	44.0	66.7	66.7	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
18000	4.0	44.0	66.7	66.7	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
16000	4.0	44.0	66.7	66.7	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
14000	4.0	44.0	66.7	66.7	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
12000	4.0	44.0	66.7	66.7	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
10000	7.5	66.7	70.3	71.0	72.4	72.8	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
9000	6.4	66.7	70.3	71.0	72.4	72.8	73.1	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
8000	7.7	71.7	74.4	73.1	75.7	75.9	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
7000	7.7	71.7	73.1	73.3	75.9	76.2	76.6	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
6000	7.7	71.7	74.1	74.8	77.2	77.6	77.9	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
5000	2.4	73.5	75.2	76.9	79.3	80.0	80.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
4500	66.7	76.3	80.7	81.4	84.5	85.2	85.5	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
4000	66.7	76.3	81.5	84.1	86.3	89.0	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
3500	66.7	76.3	84.9	85.5	89.7	90.3	91.0	91.4	91.4	91.7	91.7	91.7	91.7	91.7	91.7	91.7
3000	66.7	76.3	86.2	86.9	91.4	92.8	93.5	94.1	94.1	94.5	94.5	94.5	94.5	94.5	94.5	94.5
2500	66.7	76.3	87.6	88.3	91.1	94.5	95.2	95.9	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2
2000	66.7	76.3	87.9	88.6	93.3	95.2	95.9	96.6	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9
1800	66.7	76.3	87.9	88.6	93.8	95.2	95.9	96.6	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9
1600	66.7	76.3	88.3	89.0	94.1	95.9	97.2	97.9	97.9	98.3	98.3	98.3	98.3	98.3	98.3	98.3
1400	66.7	76.3	88.3	89.0	94.1	95.9	97.6	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1200	66.7	76.3	88.3	89.0	94.1	95.9	97.6	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1000	66.7	76.3	88.3	89.0	94.1	95.9	97.6	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0
900	66.7	76.3	88.3	89.0	94.1	95.9	97.6	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0
800	66.7	76.3	88.3	89.0	94.1	95.9	97.6	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0
700	66.7	76.3	88.3	89.0	94.1	95.9	97.6	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0
600	66.7	76.3	88.3	89.0	94.1	95.9	97.6	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0
500	66.7	76.3	88.3	89.0	94.1	95.9	97.6	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0
400	66.7	76.3	88.3	89.0	94.1	95.9	97.6	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0
300	66.7	76.3	88.3	89.0	94.1	95.9	97.6	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0
200	66.7	76.3	88.3	89.0	94.1	95.9	97.6	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0
100	66.7	76.3	88.3	89.0	94.1	95.9	97.6	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0
0	66.7	76.3	88.3	89.0	94.1	95.9	97.6	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0

TOTAL NUMBER OF OBSERVATIONS 291

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NO. 1 WEATHER DATA REPORT FORM (10-6-61)

STATION

STATION NAME

YEAR

JA
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

11
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 3	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	59.7	59.7	59.3	54.7	50.1	59.2	59.5	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
≥ 20000	59.7	59.7	59.7	57.8	63.1	54.1	54.4	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	54.7
≥ 18000	59.7	59.7	59.1	53.1	63.8	54.4	54.7	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 16000	59.7	59.7	59.1	53.1	63.3	54.4	54.7	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 14000	59.7	59.7	59.1	53.1	63.3	55.1	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 12000	59.7	59.7	59.8	60.9	66.1	67.8	68.2	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 10000	59.7	59.7	62.3	64.7	71.3	73.0	73.4	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 9000	59.7	59.7	62.7	65.4	72.1	73.7	74.1	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 8000	59.7	59.7	65.7	66.2	75.1	77.2	77.5	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 7000	59.7	59.7	66.1	66.5	75.4	77.5	77.9	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 6000	59.7	59.7	66.1	64.5	75.4	77.9	77.9	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 5000	59.7	59.7	66.1	63.2	75.4	78.2	80.1	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 4500	59.7	59.7	71.6	74.4	82.4	84.8	85.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 4000	59.7	59.7	75.4	76.7	88.2	91.3	92.0	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 3500	59.7	59.7	75.5	76.6	88.9	92.0	93.1	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 3000	59.7	59.7	75.1	77.5	86.6	92.2	93.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 2500	59.7	59.7	75.5	74.2	81.3	91.4	94.8	96.2	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 2000	59.7	59.7	75.8	79.2	81.3	91.7	95.2	96.5	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1800	59.7	59.7	75.5	78.2	81.3	91.7	95.2	96.5	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1500	59.7	59.7	76.1	78.6	81.7	92.0	95.9	97.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1200	59.7	59.7	76.1	78.6	81.7	92.0	95.9	97.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1000	59.7	59.7	76.1	78.6	81.7	92.4	96.2	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 900	59.7	59.7	76.1	78.6	81.7	92.4	96.2	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 800	59.7	59.7	76.1	78.6	81.7	92.4	96.2	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 700	59.7	59.7	76.1	78.6	81.7	92.4	96.2	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 600	59.7	59.7	76.1	78.6	81.7	92.4	96.2	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 500	59.7	59.7	76.1	78.6	81.7	92.4	96.2	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 400	59.7	59.7	76.1	78.6	81.7	92.4	96.2	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 300	59.7	59.7	76.1	78.6	81.7	92.4	96.2	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 200	59.7	59.7	76.1	78.6	81.7	92.4	96.2	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 100	59.7	59.7	76.1	78.6	81.7	92.4	96.2	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 0	59.7	59.7	76.1	78.6	81.7	92.4	96.2	97.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0

TOTAL NUMBER OF OBSERVATIONS 289

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

17-62

YEAR

JAN
MONTH

21

HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 3/8	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	0	2.1	55.3	76.2	81.8	81.8	81.8	82.2	82.3	82.3	82.2	82.2	82.2	82.2	82.2	82.3
≥ 20000	0	14.9	57.7	79.4	84.6	84.6	84.6	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
18000	0	14.9	57.7	79.4	84.6	84.6	84.6	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
16000	0	14.9	57.7	79.4	84.6	84.6	84.6	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
14000	0	14.9	57.7	79.4	84.6	84.6	84.6	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
12000	1.2	56.1	55.7	6.6	66.3	66.7	66.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
10000	5.7	61.0	61.8	63.5	72.4	72.4	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
9000	1.1	61.8	64.6	66.3	72.8	73.2	73.2	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
8000	1.2	66.7	65.7	71.1	72.1	72.5	78.5	78.9	73.9	78.9	79.9	78.9	78.9	78.9	78.9	78.9
7000	1.2	66.7	67.5	71.5	72.5	78.9	73.9	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
6000	1.4	67.4	71.7	72.8	76.7	80.1	87.1	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
5000	3.2	71.1	74.0	76.0	82.9	83.3	83.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
4300	6.7	74.4	77.4	79.3	86.2	86.6	87.0	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
4000	6.7	75.0	78.5	80.5	89.0	89.4	89.8	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
3500	6.7	76.0	78.3	81.3	91.2	90.7	91.1	91.5	91.5	91.9	91.9	91.9	91.9	91.9	91.9	91.9
3000	6.7	77.2	80.9	82.9	92.3	93.1	93.9	94.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
2500	6.1	77.6	81.7	83.7	93.1	93.9	94.7	95.1	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
2000	6.1	77.6	81.7	83.7	93.5	94.7	95.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
1800	6.1	77.6	81.7	83.7	93.5	94.7	95.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
1500	6.1	77.6	81.7	83.7	93.5	94.7	95.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
1200	6.1	77.6	81.7	83.7	93.5	94.7	95.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
1000	6.1	77.6	81.7	83.7	93.5	94.7	95.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
900	6.1	77.6	81.7	83.7	93.5	94.7	95.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
800	6.1	77.6	81.7	83.7	93.5	94.7	95.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
700	6.1	77.6	81.7	83.7	93.5	94.7	95.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
600	6.1	77.6	81.7	83.7	93.5	94.7	95.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
500	6.1	77.6	81.7	83.7	93.5	94.7	95.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
400	6.1	77.6	81.7	83.7	93.5	94.7	95.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
300	6.1	77.6	81.7	83.7	93.5	94.7	95.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
200	6.1	77.6	81.7	83.7	93.5	94.7	95.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
100	6.1	77.6	81.7	83.7	93.5	94.7	95.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
0	6.1	77.6	81.7	83.7	93.5	94.7	95.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2

TOTAL NUMBER OF OBSERVATIONS

246

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE - STATION NAME - ALL

CEILING VERSUS VISIBILITY

STATION

STATION NAME

13-12

YEARS

JAN

ALL

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 20000	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 18000	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 16000	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 14000	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 12000	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 10000	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 9000	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 8000	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 7000	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 6000	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 5000	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 4500	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 4000	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 3500	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 3000	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 2500	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 2000	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 1800	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 1500	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 1200	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 1000	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 900	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 800	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 700	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 600	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 500	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 400	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 300	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 200	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 100	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
≥ 0	4.4	5.0	5.3	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0

TOTAL NUMBER OF OBSERVATIONS

1937

ETHNAVOCEANMET SMOS

NAVAL WEATHER BUREAU ATTACHMENT A REPORT

CEILING VERSUS VISIBILITY

STATION
STATION NAME

17-13

YEARS

FEB

MONTH

50

HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0	≥ 0
NO CEILING	45.7	42.7	43.6	43.5	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
≥ 20000	46.0	46.0	46.0	46.0	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
IV 18000	46.0	46.0	46.0	46.0	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
IV 16000	46.0	46.0	46.0	46.0	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
IV 14000	46.0	46.0	46.0	46.0	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
IV 12000	46.0	46.0	50.8	50.8	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
IV 10000	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 9000	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 8000	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 7000	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 6000	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 5000	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 4300	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 4000	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 3300	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 3000	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 2500	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 2000	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 1800	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 1500	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 1200	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 1000	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 900	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 800	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 700	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 600	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 500	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 400	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 300	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 200	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 100	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 0	46.0	46.0	62.9	62.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3

TOTAL NUMBER OF OBSERVATIONS 124

DIRNAVOCEANMET SMOS

NATIONAL WEATHER SERVICE METEOROLOGICAL SERVICE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

17-B

YEAR

FET
MONTH

07
HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING	47.7	44.9	44.1	43.4	50.9	50.8	50.7	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
≥ 20000	47.7	45.3	46.0	49.2	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IN 18000	43.7	45.3	46.0	49.2	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IN 16000	43.7	45.3	46.0	49.2	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IN 14000	43.7	46.1	47.7	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
IN 12000	43.7	45.4	50.0	52.3	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
IN 10000	43.7	42.3	64.1	66.4	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
IN 9000	1.7	63.3	61.6	67.2	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
IN 8000	4.3	73.3	71.7	74.2	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
IN 7000	1.5	71.1	72.7	75.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
IN 6000	12.7	74.2	75.0	77.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
IN 5000	14.2	75.3	77.9	82.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
IN 4500	17.5	78.9	82.0	85.9	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IN 4000	74.7	81.3	85.2	89.1	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
IN 3500	71.7	81.3	85.2	89.1	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
IN 3000	74.7	81.3	85.2	89.1	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
IN 2500	1.5	82.0	85.9	90.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IN 2000	1.5	82.0	85.9	90.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IN 1800	1.5	82.0	85.9	90.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IN 1600	1.5	82.0	85.9	90.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IN 1400	1.5	82.0	85.9	90.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IN 1200	1.5	82.0	85.9	90.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IN 1000	1.5	82.0	85.9	90.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IN 900	1.5	82.0	85.9	90.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IN 800	1.5	82.0	85.9	90.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IN 700	1.5	82.0	85.9	90.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IN 600	1.5	82.0	85.9	90.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IN 500	1.5	82.0	85.9	90.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IN 400	1.5	82.0	85.9	90.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IN 300	1.5	82.0	85.9	90.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IN 200	1.5	82.0	85.9	90.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IN 100	1.5	82.0	85.9	90.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IN 0	1.5	82.0	85.9	90.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

128

DIRNAVOCEANMET SMUS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

72-41

YEARS

FEB

MONTH

76

DOUGLAS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	50.4	50.4	49.3	46.3	42.1	49.0	50.0	50.0	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
≥ 20000	52.7	52.7	51.4	48.4	41.2	52.0	52.3	52.3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 18000	52.7	52.7	51.4	48.4	41.2	52.3	52.3	52.3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 16000	52.7	52.7	51.4	48.3	41.2	52.3	52.3	52.3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 14000	53.1	53.1	51.4	49.2	41.6	52.8	52.7	52.7	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 12000	55.9	55.9	51.2	52.0	54.3	55.1	55.5	55.5	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
≥ 10000	61.7	61.7	51.5	56.6	60.2	60.9	61.3	61.3	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 9000	62.9	62.9	51.3	57.4	61.3	62.1	62.5	62.5	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 8000	74.6	74.6	61.4	61.4	73.1	73.8	74.2	74.2	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 7000	74.6	74.6	61.4	61.4	73.1	73.8	74.2	74.2	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 6000	75.0	75.0	66.0	68.8	73.4	74.2	74.6	74.6	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 5000	80.5	80.5	72.3	74.2	78.9	79.7	80.1	80.1	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
≥ 4500	87.9	87.9	75.8	77.7	82.4	83.6	84.0	84.0	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 4000	87.9	87.9	75.5	81.5	85.2	86.7	87.1	87.5	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 3500	90.2	90.2	85.1	82.0	87.1	88.7	89.1	89.5	89.8	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 3000	91.0	91.0	81.5	82.4	87.5	89.1	89.5	89.8	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 2500	91.8	91.8	80.5	82.4	87.5	89.5	90.2	90.6	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2000	94.1	94.1	91.3	93.2	97.2	91.5	92.6	93.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 1800	94.1	94.1	91.3	93.2	97.2	91.5	92.6	93.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 1500	96.9	96.9	91.0	94.0	92.2	94.1	95.3	95.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1200	98.4	98.4	92.0	94.0	93.0	95.3	96.5	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 1000	98.4	98.4	92.0	94.0	93.0	95.3	96.5	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 900	99.2	99.2	92.0	94.0	93.0	95.3	96.5	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 800	99.2	99.2	92.0	94.0	93.0	95.3	96.5	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 700	99.2	99.2	92.0	94.0	93.0	95.3	96.5	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥ 600	99.6	99.6	92.0	94.0	93.0	95.3	96.5	97.3	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 500	99.6	99.6	92.0	94.0	93.0	95.3	96.5	97.3	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 400	99.6	99.6	92.0	94.0	93.0	95.3	96.5	97.3	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 300	99.6	99.6	92.0	94.0	93.0	95.3	96.5	97.3	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 200	99.6	99.6	92.0	94.0	93.0	95.3	96.5	97.3	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 100	99.6	99.6	92.0	94.0	93.0	95.3	96.5	97.3	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 0	99.6	99.6	92.0	94.0	93.0	95.3	96.5	97.3	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS 256

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

FEB

00

HOURLY OBS.

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 3	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 3/8	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING	7.1	13.1	77.1	41.4	47.4	48.2	40.6	43.6	40.6	49.0	49.7	49.1	49.7	49.0	49.1	49.7
≥ 20000	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
18000	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
16000	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
14000	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
12000	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
10000	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
9000	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
8000	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
7000	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
6000	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
5000	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
4500	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
4000	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
3500	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
3000	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
2500	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
2000	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
1800	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
1600	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
1400	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
1200	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
1000	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
900	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
800	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
700	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
600	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
500	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
400	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
300	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
200	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
100	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0
0	1.1	15.1	3.8	45.2	51.4	52.2	52.6	52.6	52.6	53.0	53.0	53.0	53.0	53.0	53.0	53.0

TOTAL NUMBER OF OBSERVATIONS 251

UNAVOICEANMET 5005

CEILING VERSUS VISIBILITY

STATION NAME
STATION NAME

YEAR
YEAR

ROUTE
15
HOUSE NO.

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64
NO CEILING	1.2	41.2	4.0	7.7	5.7	13.0	17.0	53.3	57.7	53.0	17.0	53.0	11.7	53.0	53.7	53.0
≥ 20000	1.2	12.3	56.7	56.5	6.0	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
18000	1.2	2.7	57.1	57.2	6.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
16000	1.2	52.7	51.1	57.7	6.4	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
14000	1.2	3.0	55.4	57.6	61.1	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
12000	1.2	54.2	57.6	57.7	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
10000	1.2	5.7	57.7	61.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
9000	1.2	15.1	61.7	61.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
8000	1.4	14.3	67.7	64.4	77.1	70.1	77.1	70.1	77.1	70.1	77.1	70.1	77.1	70.1	77.1	70.1
7000	1.4	14.7	67.4	64.5	77.8	70.8	77.8	70.8	77.8	70.8	77.8	70.8	77.8	70.8	77.8	70.8
6000	1.1	14.7	64.0	65.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
5000	1.4	12.1	67.1	65.9	75.4	75.5	75.8	75.8	75.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1
4500	1.4	14.3	67.7	65.0	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
4000	1.5	16.7	71.7	75.4	84.5	85.6	85.6	85.6	86.0	86.4	86.4	86.4	86.4	86.4	86.4	86.4
3500	1.7	67.4	72.4	76.1	85.6	86.7	86.7	86.7	87.1	87.5	87.5	87.5	87.5	87.5	87.5	87.5
3000	1.7	68.2	73.1	76.7	87.5	89.0	89.0	89.0	89.4	89.8	89.8	89.8	89.8	89.8	89.8	89.8
2500	1.7	68.6	73.5	77.3	89.3	89.4	90.5	90.5	90.9	91.3	91.3	91.3	91.3	91.3	91.3	91.3
2000	1.7	69.7	74.4	78.8	90.9	91.7	92.4	92.4	92.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
1800	1.7	69.7	74.6	78.8	91.2	91.7	92.4	92.4	92.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
1500	1.7	69.7	74.6	78.8	91.2	91.7	92.4	92.4	92.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
1200	1.7	69.7	74.6	78.8	91.5	92.1	93.2	93.2	93.6	95.1	95.5	95.5	95.5	95.5	95.5	95.5
1000	1.7	69.7	74.6	78.8	91.9	92.4	93.6	93.6	93.9	95.1	97.0	97.7	97.7	97.7	97.7	97.7
900	1.7	69.7	74.6	78.8	90.9	92.4	93.6	93.6	93.9	95.1	97.0	97.7	97.7	97.7	97.7	97.7
800	1.7	69.7	74.6	78.8	90.9	92.4	93.6	93.6	93.9	95.5	97.7	98.9	98.9	99.2	99.2	99.2
700	1.7	69.7	74.6	78.8	90.9	92.4	93.6	93.6	93.9	95.5	97.7	98.9	98.9	99.2	99.2	99.2
600	1.7	69.7	74.6	78.8	90.9	92.4	93.6	93.6	93.9	95.5	97.7	98.9	98.9	99.2	99.2	99.2
500	1.7	69.7	74.6	78.8	90.9	92.4	93.6	93.6	93.9	95.5	97.7	98.9	98.9	99.2	99.2	99.2
400	1.7	69.7	74.6	78.8	90.9	92.4	93.6	93.6	93.9	95.5	97.7	98.9	98.9	99.2	99.2	99.2
300	1.7	69.7	74.6	78.8	90.9	92.4	93.6	93.6	93.9	95.5	97.7	98.9	98.9	99.2	99.2	99.2
200	1.7	69.7	74.6	78.8	90.9	92.4	93.6	93.6	93.9	95.5	97.7	98.9	98.9	99.2	99.2	99.2
100	1.7	69.7	74.6	78.8	90.9	92.4	93.6	93.6	93.9	95.5	97.7	98.9	98.9	99.2	99.2	99.2
0	1.7	69.7	74.6	78.8	90.9	92.4	93.6	93.6	93.9	95.5	97.7	98.9	98.9	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS 264

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING	47.4	71.2	31.3	40.5	41.4	41.4	41.4	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥ 20000	47.7	46.6	40.2	40.4	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 18000	47.7	46.6	40.2	40.4	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 16000	47.7	46.6	40.2	40.4	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 14000	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 12000	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 10000	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 9000	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 8000	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 7000	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 6000	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 5000	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 4500	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 4000	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 3500	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 3000	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 2500	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 2000	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 1800	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 1500	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 1200	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 1000	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 900	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 800	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 700	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 600	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 500	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 400	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 300	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 200	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 100	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 0	47.1	40.1	51.2	52.3	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8

TOTAL NUMBER OF OBSERVATIONS 252

DATA SOURCE: METEOROLOGICAL SERVICE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

73-

YEARS

MONTH

10
HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	10.0
NO CEILING	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
≥ 20000	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
18000	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
16000	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
14000	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
12000	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
10000	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
9000	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
8000	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
7000	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
6000	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
5000	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
4500	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
4000	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
3500	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
3000	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
2500	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
2000	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
1800	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
1500	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
1200	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
1000	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
900	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
800	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
700	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
600	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
500	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
400	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
300	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
200	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
100	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
0	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2

TOTAL NUMBER OF OBSERVATIONS

271

DATA VOLCANMET 0505

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .8	≥ .6	≥ .5	≥ .4	≥ .3	≥ .2	≥ 0
NO CEILING	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 20000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 18000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 16000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 14000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 12000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 10000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 9000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 8000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 7000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 6000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 5000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 4500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 4000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 3500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 3000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 2500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 2000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 1800	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 1500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 1200	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 1000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 900	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 800	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 700	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 600	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 400	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 300	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 200	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 100	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ 0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7

TOTAL NUMBER OF OBSERVATIONS

177

CEILING VERSUS VISIBILITY

STATION

STATION NAME

73-72

YEARS

FEB

ALL

HOURLY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ .1
NO CEILING	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 20000	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 18000	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 16000	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 14000	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 12000	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 10000	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 9000	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 8000	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 7000	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 6000	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 5000	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 4500	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 4000	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 3500	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 3000	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 2500	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 2000	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 1800	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 1500	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 1200	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 1000	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 900	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 800	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 700	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 600	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 500	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 400	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 300	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 200	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 100	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 0	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7

TOTAL NUMBER OF OBSERVATIONS 17.6

WINDY CLEARMET 00.00

CEILING VERSUS VISIBILITY

STATION

STATION NAME

7-5

YEARS

MA
DATA

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

30
HOURS PER YEAR

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	1.7	26.5	27.2	27.9	30.1	30.4	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	31.6
≥ 20000	1.5	27.3	28.7	29.4	31.6	31.6	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	33.1
≥ 18000	1.5	27.3	28.7	29.4	31.6	31.6	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	33.1
≥ 16000	1.5	27.3	28.7	29.4	31.6	31.6	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	33.1
≥ 14000	1.5	27.3	28.7	29.4	31.6	31.6	32.4	32.4	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.9
≥ 12000	1.5	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.9
≥ 10000	1.5	41.1	44.1	45.6	47.0	48.5	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	50.0
≥ 9000	1.5	43.4	45.6	47.0	50.0	50.7	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	52.2
≥ 8000	4.4	47.1	50.7	52.2	55.2	55.2	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	57.4
≥ 7000	4.4	48.5	51.5	52.2	56.6	57.4	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.9
≥ 6000	4.4	50.0	52.2	52.2	58.1	58.8	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	60.3
≥ 5000	2.2	54.4	57.4	59.6	64.2	64.7	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	66.2
≥ 4500	1.7	57.4	61.6	63.1	69.9	69.9	70.6	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	72.1
≥ 4000	1.7	60.3	64.7	67.7	74.2	75.4	76.5	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.9
≥ 3500	1.4	60.3	64.7	68.4	75.7	76.5	77.9	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	80.3
≥ 3000	1.1	61.6	66.2	69.9	80.2	80.9	83.1	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	84.6
≥ 2500	1.1	61.6	66.2	70.1	83.1	84.0	86.8	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	88.2
≥ 2000	1.1	64.7	69.9	73.5	84.6	85.2	88.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.7
≥ 1800	1.1	64.7	69.9	73.5	84.6	86.7	88.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.7
≥ 1600	1.1	64.7	69.9	73.5	86.8	89.7	91.9	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.4
≥ 1400	1.1	64.7	69.9	73.5	89.7	91.9	94.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	97.1
≥ 1200	1.1	64.7	69.9	73.5	89.7	92.7	94.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.8
≥ 1000	1.1	64.7	69.9	73.5	89.7	92.7	94.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.8
≥ 900	1.1	64.7	69.9	73.5	90.4	93.4	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.5
≥ 800	1.1	64.7	69.9	73.5	90.4	93.4	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.5
≥ 700	1.1	64.7	69.9	73.5	90.4	93.4	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.5
≥ 600	1.1	64.7	69.9	73.5	90.4	93.4	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.5
≥ 500	1.1	64.7	69.9	73.5	90.4	93.4	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.5
≥ 400	1.1	64.7	69.9	73.5	90.4	93.4	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.5
≥ 300	1.1	64.7	69.9	73.5	90.4	93.4	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.5
≥ 200	1.1	64.7	69.9	73.5	90.4	93.4	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.5
≥ 100	1.1	64.7	69.9	73.5	90.4	93.4	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.5
≥ 0	1.1	64.7	69.9	73.5	90.4	93.4	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.5

TOTAL NUMBER OF OBSERVATIONS 136

DATA SOURCE: MET. STATION

CEILING VERSUS VISIBILITY

NAME WEATHER STATION NUMBER AND LOCATION

STATION NO.

STATION NAME

17-40

YEARS

MAP

MONTH

03

NOVEMBER 1977

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	26.1	24.3	27.5	27.9	28.9	27.6	29.6	27.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
≥ 20000	1.0	31.7	33.1	35.2	35.2	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
≥ 18000	31.7	31.7	33.1	35.2	35.2	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
≥ 16000	31.7	31.7	33.1	35.2	35.2	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
≥ 14000	31.7	31.7	33.1	35.2	35.2	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
≥ 12000	35.2	35.2	33.0	40.1	40.1	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
≥ 10000	43.0	47.7	47.2	49.3	49.3	50.0	51.0	50.7	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 9000	44.4	45.1	43.5	50.7	50.7	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
≥ 8000	50.7	52.9	56.3	59.2	59.2	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
≥ 7000	51.4	53.5	57.0	59.7	59.9	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 6000	53.5	55.6	59.2	62.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 5000	55.6	58.5	62.0	65.5	65.5	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
≥ 4500	61.3	63.4	66.9	71.1	71.1	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 4000	66.2	69.0	72.5	79.6	79.6	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 3500	68.3	71.8	76.1	83.1	83.1	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 3000	69.0	73.9	78.2	85.2	85.2	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 2500	69.0	73.9	78.2	85.2	85.2	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
≥ 2000	69.0	73.9	78.2	86.6	87.3	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1800	69.0	73.9	78.2	86.6	87.3	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1600	69.0	73.9	78.2	86.6	87.3	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1400	69.0	73.9	78.2	86.6	87.3	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1200	69.0	73.9	78.2	86.6	87.3	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1000	69.0	74.7	78.9	91.6	92.3	96.5	97.9	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 900	69.0	74.7	78.9	91.6	92.3	96.5	97.9	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 800	69.0	74.7	78.9	92.3	93.0	97.2	98.6	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700	69.0	74.7	78.9	92.3	93.0	97.2	98.6	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600	69.0	74.7	78.9	92.3	93.0	97.2	98.6	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500	69.0	74.7	78.9	92.3	93.0	97.2	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	69.0	74.7	78.9	92.3	93.0	97.2	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	69.0	74.7	78.9	92.3	93.0	97.2	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	69.0	74.7	78.9	92.3	93.0	97.2	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	69.0	74.7	78.9	92.3	93.0	97.2	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	69.0	74.7	78.9	92.3	93.0	97.2	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

142

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE STATION AND RECORD NO.

CEILING VERSUS VISIBILITY

STATION NO.

STATION NAME

DATE

YEAR

MAR

ROUTE

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

30
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	31.6	26.3	31.7	33.8	36.9	37.4	31.9	39.3	31.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
≥ 20000	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 18000	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 16000	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 14000	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 12000	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 10000	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 9000	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 8000	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 7000	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 6000	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 5000	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 4500	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 4000	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 3500	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 3000	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 2500	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 2000	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 1800	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 1600	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 1400	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 1200	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 1000	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 900	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 800	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 700	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 600	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 500	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 400	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 300	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 200	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 100	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 0	22.1	11.4	33.8	27.9	42.7	43.3	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1

TOTAL NUMBER OF OBSERVATIONS

293

DIPNAVJCEANMET SMOS

NATIONAL WEATHER SERVICE DETACHMENT ASHVILLE, NC

CEILING VERSUS VISIBILITY

STATION NAME: JEFFERSON STATION DATE: 7-3-52 YEARS: 1952 MAP: NORTH
 STATION NO: 109 HOURS: 15.7

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.0	≥ .8	≥ .6	≥ .4	≥ .3	≥ .2	≥ .1	≥ 0
NO CEILING	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 20000	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 18000	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 16000	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 14000	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 12000	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 10000	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 9000	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 8000	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 7000	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 6000	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 5000	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 4500	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 4000	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 3500	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 3000	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 2500	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 2000	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 1800	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 1500	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 1200	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 1000	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 900	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 800	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 700	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 600	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 500	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 400	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 300	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 200	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 100	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 0	1.1	31.2	37.7	33.7	37.5	38.6	38.5	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6

TOTAL NUMBER OF OBSERVATIONS 255

DIRNAVOCEANMET SMO:

NATIONAL WEATHER SERVICE DETACHMENT WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

15-22

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	36.7	34.4	35.7	36.4	37.0	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
≥ 20000	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 18000	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 16000	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 14000	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 12000	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 10000	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 9000	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 8000	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 7000	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 6000	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 5000	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 4500	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 4000	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 3500	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 3000	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 2500	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 2000	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 1800	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 1500	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 1200	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 1000	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 900	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 800	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 700	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 600	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 500	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 400	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 300	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 200	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 100	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 0	33.7	42.2	45.9	47.3	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6

TOTAL NUMBER OF OBSERVATIONS 294

DIRNAVCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHVILLE, NC

CEILING VERSUS VISIBILITY

STATION NO. 77-52

STATION NAME

77-52

YEARS

15

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1	≥ 0	≥ 0
NO CEILING	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
≥ 20000	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
18000	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
16000	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
14000	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
12000	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
10000	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
9000	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
8000	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
7000	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
6000	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
5000	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
4500	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
4000	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
3500	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
3000	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
2500	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
2000	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
1800	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
1500	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
1200	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
1000	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
900	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
800	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
700	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
600	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
500	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
400	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
300	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
200	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
100	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
0	24.4	21.8	18.2	11.2	3.6	2.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6

TOTAL NUMBER OF OBSERVATIONS

245

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE REPORT NO. 10-1-1-1

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MO
DOY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

18
NOV 1951

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING	2.1	27.2	28.7	24.3	32.0	32.7	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
≥ 20000	5.2	33.5	35.7	35.1	39.1	40.1	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
≥ 18000	6.7	33.7	36.1	35.4	39.5	40.5	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
≥ 16000	6.2	32.7	36.1	35.4	39.5	40.5	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
≥ 14000	7.7	35.1	37.8	39.1	41.2	42.2	42.5	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
≥ 12000	2.2	37.1	43.5	41.5	46.3	47.3	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
≥ 10000	31.1	39.1	42.4	44.6	51.7	51.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 9000	31.3	39.3	43.2	44.2	51.3	51.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 8000	2.3	40.3	44.2	45.2	51.7	53.7	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 7000	32.7	40.8	44.2	46.6	52.4	54.4	55.4	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
≥ 6000	34.4	42.9	46.9	49.3	55.1	57.1	58.2	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
≥ 5000	31.1	43.1	52.1	54.8	61.6	64.0	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 4500	31.5	50.0	55.1	58.5	66.7	68.7	70.4	71.1	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 4000	31.5	52.4	58.2	62.6	71.1	74.2	76.2	76.9	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 3500	33.5	54.8	60.9	65.3	74.2	77.2	79.9	81.6	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
≥ 3000	34.6	55.8	61.9	66.3	76.5	79.9	83.0	84.7	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
≥ 2500	42.6	57.8	64.0	68.4	77.9	82.3	85.4	87.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 2000	42.6	57.8	64.0	68.4	79.6	83.3	86.7	89.1	90.1	90.5	90.5	90.5	90.5	90.5	90.5	90.5
≥ 1800	42.6	57.8	64.0	68.4	79.9	83.7	87.1	89.5	90.5	90.8	91.2	91.2	91.2	91.2	91.2	91.2
≥ 1600	42.6	58.2	64.3	68.7	81.6	84.7	88.8	91.2	92.5	93.2	93.9	93.9	94.2	94.2	94.2	94.2
≥ 1400	42.6	58.2	64.3	68.7	81.0	85.0	89.8	92.9	94.2	95.2	95.9	96.6	96.9	96.9	96.9	96.9
≥ 1200	42.6	58.2	64.3	68.7	81.3	85.4	90.1	93.2	94.6	95.6	96.3	96.9	97.3	97.3	97.3	97.3
≥ 1000	42.6	58.2	64.3	68.7	81.3	85.4	90.1	93.2	94.6	95.9	96.6	97.3	97.6	97.6	97.6	97.6
≥ 900	42.6	58.2	64.3	68.7	81.3	85.4	90.1	93.5	94.2	96.3	96.9	97.6	98.0	98.0	98.0	98.0
≥ 800	42.6	58.2	64.3	68.7	81.3	85.4	90.1	93.9	95.2	96.9	98.0	98.6	99.0	99.0	99.0	99.0
≥ 700	42.6	58.2	64.3	68.7	81.3	85.4	90.1	93.9	95.2	96.9	98.0	98.6	99.0	99.0	99.0	99.0
≥ 600	42.6	58.2	64.3	68.7	81.3	85.4	90.1	93.9	95.2	96.9	98.0	98.6	99.0	99.0	99.0	99.0
≥ 500	42.6	58.2	64.3	68.7	81.3	85.4	90.1	93.9	95.2	96.9	98.0	98.6	99.0	99.0	99.0	99.0
≥ 400	42.6	58.2	64.3	68.7	81.3	85.4	90.1	93.9	95.2	96.9	98.0	98.6	99.0	99.0	99.0	99.0
≥ 300	42.6	58.2	64.3	68.7	81.3	85.4	90.1	93.9	95.2	96.9	98.0	98.6	99.0	99.0	99.0	99.0
≥ 200	42.6	58.2	64.3	68.7	81.3	85.4	90.1	93.9	95.2	96.9	98.0	98.6	99.0	99.0	99.0	99.0
≥ 100	42.6	58.2	64.3	68.7	81.3	85.4	90.1	93.9	95.2	96.9	98.0	98.6	99.0	99.0	99.0	99.0
≥ 0	42.6	58.2	64.3	68.7	81.3	85.4	90.1	93.9	95.2	96.9	98.0	98.6	99.0	99.0	99.0	99.0

TOTAL NUMBER OF OBSERVATIONS 294

DIRNAVOCEANMET 5405

NAVAL WEATHER SERVICE STATION REPORT

CEILING VERSUS VISIBILITY

STATION

DATE

STATION NAME

TIME

YEAR

MAP
POST

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING	31.1	33.7	33.1	35.7	35.7	35.7	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	37.2
≥ 20000	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 18000	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 16000	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 14000	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 12000	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 10000	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 9000	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 8000	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 7000	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 6000	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 5000	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 4500	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 4000	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 3500	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 3000	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 2500	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 2000	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 1800	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 1500	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 1200	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 1000	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 900	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 800	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 700	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 600	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 500	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 400	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 300	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 200	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 100	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9
≥ 0	76.4	37.4	35.3	41.7	41.3	41.3	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.9

TOTAL NUMBER OF OBSERVATIONS 259

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT WASHVILLE, TN

CEILING VERSUS VISIBILITY

STATION NAME

STATION NAME

13-72

YEARS

M A C

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

HOURLY

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 3	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	23.0	20.0	30.0	32.2	34.5	34.7	35.3	35.4	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.6
≥ 20000	17.0	24.7	37.5	39.2	42.4	42.8	43.2	43.4	43.4	43.4	43.4	43.5	43.5	43.5	43.5	43.6
IV 18000	17.0	24.4	37.5	39.3	42.5	42.9	43.3	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.6
IV 16000	17.0	24.3	37.5	39.3	42.5	42.9	43.3	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.6
IV 14000	17.0	24.3	37.5	39.3	42.5	42.9	43.3	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.6
IV 12000	10.6	24.1	41.2	42.5	47.4	47.9	48.3	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.7
IV 10000	24.1	42.7	46.3	48.9	53.4	54.2	54.9	55.1	55.2	55.2	55.2	55.2	55.3	55.3	55.3	55.4
IV 9000	24.1	43.3	46.9	49.5	54.2	55.1	55.7	55.9	56.7	56.0	56.7	56.0	56.7	56.1	56.1	56.2
IV 8000	17.5	46.3	50.4	53.3	58.3	59.2	59.9	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.4
IV 7000	1.1	47.2	51.1	54.0	59.2	60.2	61.0	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.5
IV 6000	17.7	48.2	52.3	55.1	60.4	61.4	62.2	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.7
IV 5000	1.1	51.2	55.7	59.2	64.9	66.0	66.8	67.2	67.4	67.4	67.4	67.4	67.5	67.5	67.5	67.6
IV 4500	43.0	54.4	59.1	62.7	69.2	70.4	71.3	72.0	72.7	72.3	72.3	72.3	72.3	72.3	72.3	72.4
IV 4000	4.6	58.2	63.5	67.6	75.5	76.9	78.0	78.8	79.7	79.1	79.1	79.1	79.1	79.1	79.1	79.2
IV 3500	4.1	60.2	65.2	70.3	78.9	80.4	81.8	82.7	83.7	83.0	83.0	83.1	83.1	83.1	83.1	83.2
IV 3000	10.0	62.8	68.7	73.3	83.3	84.9	86.5	87.8	88.2	88.2	88.7	88.3	88.4	88.4	88.4	88.5
IV 2500	10.0	63.0	69.6	74.2	84.6	86.3	87.9	89.3	89.8	89.9	89.9	90.0	90.0	90.0	90.0	90.1
IV 2000	1.0	63.8	69.8	74.5	85.2	87.1	88.9	90.4	90.9	91.0	91.1	91.1	91.1	91.2	91.2	91.3
IV 1800	1.7	63.8	69.8	74.5	85.3	87.2	89.0	90.5	91.0	91.1	91.2	91.2	91.3	91.3	91.3	91.4
IV 1500	1.1	64.0	70.3	74.7	86.3	88.4	90.4	92.1	92.8	93.1	93.3	93.4	93.4	93.4	93.4	93.5
IV 1200	1.1	64.0	70.3	74.8	86.8	89.0	91.5	93.8	94.5	95.1	95.4	95.5	95.6	95.6	95.6	95.7
IV 1000	1.1	64.0	70.3	74.9	87.3	89.6	92.2	94.8	95.7	96.3	96.6	96.8	96.9	96.9	96.9	97.0
IV 900	1.1	64.0	70.3	75.0	87.3	89.7	92.3	94.9	95.8	96.5	96.8	96.9	97.1	97.1	97.1	97.2
IV 800	1.2	64.1	70.2	75.0	87.7	90.2	92.5	95.6	96.6	97.4	97.7	98.0	98.2	98.3	98.3	98.4
IV 700	1.2	64.1	70.2	75.0	87.7	90.2	92.9	95.8	96.7	97.6	98.0	98.2	98.4	98.5	98.5	98.6
IV 600	1.2	64.1	70.2	75.0	87.7	90.3	93.0	95.9	96.9	97.9	98.2	98.5	98.7	98.8	98.8	98.9
IV 500	1.2	64.1	70.2	75.1	87.8	90.4	93.1	96.1	97.1	98.3	98.7	99.0	99.2	99.3	99.3	99.4
IV 400	1.2	64.1	70.3	75.2	88.0	90.6	93.2	96.2	97.2	98.6	99.0	99.4	99.6	99.7	99.8	99.9
IV 300	1.2	64.1	70.3	75.2	88.0	90.6	93.3	96.3	97.3	98.7	99.1	99.5	99.8	99.9	99.9	100.0
IV 200	1.2	64.1	70.3	75.2	88.0	90.6	93.3	96.3	97.3	98.7	99.1	99.5	99.8	99.9	99.9	100.0
IV 100	1.2	64.1	70.3	75.2	88.0	90.6	93.3	96.3	97.3	98.7	99.1	99.5	99.8	99.9	99.9	100.0
IV 0	1.2	64.1	70.3	75.2	88.0	90.6	93.3	96.3	97.3	98.7	99.1	99.5	99.8	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS

1998

DIRNAVUCEANMET SMOS

WIND WEATHER AND TEMPERATURE RECORD

CEILING VERSUS VISIBILITY

STATION NO. 77-37 STATION NAME YEARS
 APP NORTH NO HOUSE 1'S 7

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
≥ 20000	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
18000	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
16000	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
14000	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
12000	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
10000	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
9000	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
8000	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
7000	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
6000	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
5000	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
4500	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
4000	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
3500	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
3000	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
2500	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
2000	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
1800	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
1600	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
1500	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
1200	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
1000	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
900	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
800	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
700	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
600	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
500	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
400	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
300	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
200	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
100	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
0	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1

TOTAL NUMBER OF OBSERVATIONS 142

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE, PLETON POINT, NEW ZEALAND

CEILING VERSUS VISIBILITY

STATION NAME
PLETON POINT, NEW ZEALAND

STATION NAME

77-82

YEARS

SPC
NORTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

03
NOV 1957

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ 0
NO CEILING	4.5	27.2	27.9	29.5	29.9	29.8	29.8	30.5	30.5	30.5	31.1	31.1	31.1	31.1	31.1	31.1
≥ 20000	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 18000	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 16000	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 14000	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 12000	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 10000	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 9000	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 8000	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 7000	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 6000	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 5000	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 4500	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 4000	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 3500	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 3000	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 2500	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 2000	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 1800	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 1500	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 1200	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 1000	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 900	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 800	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 700	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 600	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 500	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 400	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 300	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 200	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 100	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1
≥ 0	3.1	37.1	37.1	37.8	39.1	39.1	39.7	40.4	40.4	40.4	41.1	41.1	41.1	41.1	41.1	41.1

TOTAL NUMBER OF OBSERVATIONS

151

DIR. NAV. OCEAN MET. SMOS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

7-42

YEARS

APR

MONT

76

HOURLY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 3/8	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING	1.0	10.0	10.0	11.5	20.0	27.2	24.3	24.3	15.0	20.0	25.0	25.0	20.0	25.0	25.0	25.0
≥ 20000	0.4	2.0	2.0	2.4	20.6	27.9	31.3	31.3	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
≥ 18000	0.4	1.1	2.4	2.4	20.6	27.9	31.3	31.7	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
≥ 16000	0.4	1.1	2.4	2.4	20.6	27.9	31.3	31.7	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
≥ 14000	0.4	2.0	2.4	2.4	21.0	27.9	31.3	32.4	32.9	34.6	34.6	34.6	34.6	34.6	34.6	34.6
≥ 12000	0.4	2.4	2.4	2.4	31.0	34.6	35.6	37.0	37.0	39.7	39.7	39.7	39.7	39.7	39.7	39.7
≥ 10000	0.4	2.4	31.3	34.6	35.6	40.1	41.9	41.9	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 9000	0.4	2.4	31.3	34.6	39.4	40.1	41.9	41.9	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 8000	0.4	2.4	31.3	34.6	43.7	44.0	45.9	45.9	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 7000	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 6000	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 5000	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 4500	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 4000	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 3500	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 3000	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 2500	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 2000	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 1800	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 1600	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 1400	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 1200	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 1000	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 900	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 800	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 700	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 600	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 500	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 400	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 300	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 200	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 100	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 0	0.4	2.4	34.6	37.7	43.7	44.7	46.5	46.5	48.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0

TOTAL NUMBER OF OBSERVATIONS 214

DIRNAVOCEANMET SMUS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .3	≥ .2	≥ .1	≥ .05	≥ .01	≥ 0
NO CEILING
IV 20000
IV 18000
IV 16000
IV 14000
IV 12000
IV 10000
IV 9000
IV 8000
IV 7000
IV 6000
IV 5000
IV 4500
IV 4000
IV 3500
IV 3000
IV 2500
IV 2000
IV 1800
IV 1500
IV 1200
IV 1000
IV 900
IV 800
IV 700
IV 600
IV 500
IV 400
IV 300
IV 200
IV 100
IV 0

TOTAL NUMBER OF OBSERVATIONS

274

UNITED STATES AIR FORCE

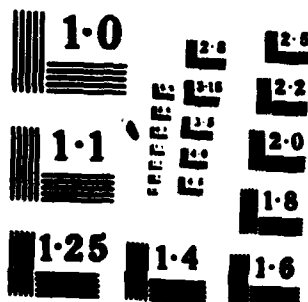
SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
FOR ATSUGI JAPAN(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC MAR 85

3/4

F/G 4/2

NL

[illegible]



NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION NAME USC, JAPAN YEARS 73-82 MONTH APR
 PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)
 12
 HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 3	≥ 4	≥ 3	≥ 2 1/4	≥ 2	≥ 1 1/4	≥ 1 1/4	≥ 1	≥ 1/2	≥ 1/4	≥ 1/4	≥ 1/8	≥ 1/8	≥ 0
NO CEILING	26.7	27.4	27.4	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
≥ 20000	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 18000	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 16000	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 14000	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 12000	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 10000	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 9000	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 8000	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 7000	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 6000	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 5000	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 4500	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 4000	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 3500	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 3000	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 2500	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 2000	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 1800	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 1500	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 1200	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 1000	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 900	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 800	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 700	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 600	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 500	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 400	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 300	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 200	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 100	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 0	3.1	37.1	39.5	41.6	41.6	41.6	41.6	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4

TOTAL NUMBER OF OBSERVATIONS 281

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

73-02

YEARS

APR

MONTH

15

HOUSE 11.5

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	¾	≥ 3/16	≥ 0
NO CEILING	22.6	24.7	24.7	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
≥ 20000	34.1	38.4	39.8	41.2	41.9	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
≥ 18000	34.1	38.4	39.8	41.2	41.9	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
≥ 16000	34.1	38.4	39.8	41.2	41.9	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
≥ 14000	34.4	39.1	40.5	42.3	43.0	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
≥ 12000	37.6	42.7	44.1	46.2	47.0	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 10000	37.6	45.5	47.3	49.8	50.9	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 9000	37.6	45.5	47.3	49.8	50.9	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 8000	41.6	47.7	49.5	52.0	53.8	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
≥ 7000	41.6	47.7	49.5	52.0	53.8	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
≥ 6000	41.6	48.0	49.8	52.3	54.1	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 5000	44.1	51.3	53.4	55.9	58.4	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 4500	46.2	52.7	54.8	57.7	60.9	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 4000	46.5	56.3	58.9	62.0	66.3	66.7	67.0	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 3500	50.7	59.9	62.4	66.0	72.0	72.4	73.1	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 3000	55.2	63.8	66.7	71.0	79.5	79.2	79.9	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 2500	58.2	67.0	70.3	74.6	82.8	84.2	85.0	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥ 2000	58.9	68.5	71.7	76.0	84.6	86.0	86.7	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 1800	60.2	68.8	72.0	76.3	85.0	86.4	87.1	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 1500	60.6	69.2	72.8	77.8	86.7	88.5	90.0	91.0	91.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥ 1200	67.7	69.5	73.1	74.1	87.1	88.9	90.3	91.4	91.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 1000	71.3	69.9	73.5	78.5	87.5	89.6	91.0	92.8	92.8	94.6	94.6	95.0	95.0	95.0	95.0	95.0
≥ 900	71.3	69.9	73.5	78.5	87.5	89.6	91.0	93.2	93.2	95.3	95.3	95.7	95.7	95.7	95.7	95.7
≥ 800	71.3	69.9	73.5	78.9	87.8	90.3	92.1	93.9	94.3	96.4	96.4	96.8	96.8	96.8	96.8	96.8
≥ 700	71.3	69.9	73.5	78.9	87.8	90.3	92.1	93.9	94.3	96.4	96.4	96.8	96.8	96.8	96.8	96.8
≥ 600	71.3	69.9	73.5	78.9	87.8	90.7	92.5	94.3	94.6	97.1	97.1	97.9	97.9	97.9	97.9	97.9
≥ 500	71.3	69.9	73.5	78.9	88.5	91.4	93.2	95.0	95.3	97.9	97.9	98.6	98.6	98.6	98.6	98.6
≥ 400	71.3	69.9	73.5	78.9	88.9	91.8	93.9	96.1	96.4	98.9	98.9	99.6	99.6	99.6	99.6	99.6
≥ 300	71.3	69.9	73.5	78.9	88.9	91.8	93.9	96.4	96.8	99.3	99.3	100.0	100.0	100.0	100.0	100.0
≥ 200	71.3	69.9	73.5	78.9	88.9	91.8	93.9	96.4	96.8	99.3	99.3	100.0	100.0	100.0	100.0	100.0
≥ 100	71.3	69.9	73.5	78.9	88.9	91.8	93.9	96.4	96.8	99.3	99.3	100.0	100.0	100.0	100.0	100.0
≥ 0	71.3	69.9	73.5	78.9	88.9	91.8	93.9	96.4	96.8	99.3	99.3	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

279

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHKEVILLE, NC

CEILING VERSUS VISIBILITY

STATION NAME

73-02

APP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

12

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING	25.1	26.8	27.9	28.6	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
≥ 20000	23.8	39.1	42.3	41.7	42.8	42.8	42.8	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
≥ 18000	23.8	39.1	42.3	41.7	42.8	42.8	42.8	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
≥ 16000	33.8	39.1	42.3	41.7	42.8	42.8	42.8	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
≥ 14000	34.5	40.0	41.7	43.5	44.5	44.5	44.5	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 12000	37.6	43.5	45.5	47.6	49.3	49.3	49.3	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
≥ 10000	37.3	47.6	49.7	51.7	53.5	53.5	53.5	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 9000	40.7	48.3	50.3	52.4	54.1	54.1	54.1	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
≥ 8000	41.7	49.7	51.7	54.1	56.6	56.9	56.9	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 7000	42.3	50.7	52.8	55.2	57.6	57.9	57.9	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥ 6000	43.1	51.4	53.5	55.9	58.3	58.6	58.6	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 5000	44.5	53.1	55.5	57.9	60.3	60.7	61.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 4500	46.2	55.9	59.0	62.1	65.5	65.9	66.2	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 4000	47.3	58.3	61.4	64.8	70.3	71.0	72.1	72.4	72.4	72.8	72.8	72.8	72.8	72.8	72.8	72.8
≥ 3500	47.3	59.0	62.4	65.9	71.7	72.4	73.8	74.1	74.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 3000	47.3	62.8	66.6	70.0	77.2	78.6	80.7	81.4	81.4	81.7	82.1	82.1	82.1	82.1	82.1	82.1
≥ 2500	47.3	65.2	69.3	72.8	80.3	82.1	84.5	85.2	85.2	85.5	85.9	85.9	85.9	85.9	85.9	85.9
≥ 2000	47.3	65.9	70.0	73.5	81.0	83.1	85.5	86.2	86.6	86.9	87.2	87.2	87.2	87.2	87.2	87.2
≥ 1800	54.1	66.2	70.3	73.8	81.4	83.5	86.2	86.9	87.2	87.6	87.9	87.9	87.9	87.9	87.9	87.9
≥ 1500	55.5	66.9	71.0	74.8	83.1	85.2	88.3	89.3	89.7	90.3	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1200	55.5	66.9	71.0	74.8	83.1	85.5	89.0	90.7	91.0	91.7	92.1	92.1	92.1	92.1	92.1	92.1
≥ 1000	55.5	66.9	71.0	74.8	83.8	86.2	89.7	92.4	93.5	94.5	94.8	94.8	94.8	94.8	94.8	94.8
≥ 900	55.5	66.9	71.0	74.8	84.1	86.6	90.0	92.8	93.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5
≥ 800	55.5	67.2	71.4	75.2	85.2	87.6	91.0	93.8	95.2	96.2	96.9	96.9	96.9	96.9	96.9	96.9
≥ 700	55.5	67.2	71.4	75.2	85.2	87.6	91.0	94.1	95.5	96.6	97.2	97.2	97.2	97.2	97.2	97.2
≥ 600	55.5	67.2	71.4	75.2	85.2	87.6	91.0	94.1	95.5	96.6	97.2	97.2	97.2	97.2	97.2	97.2
≥ 500	55.5	67.2	71.4	75.2	85.2	87.9	91.4	94.8	96.2	97.6	98.3	98.3	98.3	98.6	98.6	98.6
≥ 400	55.5	67.2	71.4	75.2	85.2	87.9	91.4	94.8	96.2	97.6	98.6	98.6	98.6	99.0	99.0	99.0
≥ 300	55.5	67.2	71.4	75.2	85.2	88.3	91.7	95.2	96.6	97.9	99.0	99.0	99.0	99.3	99.3	99.3
≥ 200	55.5	67.2	71.4	75.2	85.2	88.3	92.1	95.5	96.9	98.3	99.3	99.3	99.3	99.3	99.7	99.7
≥ 100	55.5	67.2	71.4	75.2	85.2	88.3	92.1	95.5	96.9	98.3	99.3	99.3	99.3	99.3	99.7	100.0
≥ 0	55.5	67.2	71.4	75.2	85.2	88.3	92.1	95.5	96.9	98.3	99.3	99.3	99.3	99.3	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS

290

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHVEILLE NC

CEILING VERSUS VISIBILITY

STATION NAME: JARVIS STATION NAME: 17-52 YEARS: 4P-
 PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) 21
 HOURS PER YEAR

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	24.7	26.5	29.6	24.6	30.7	30.7	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
≥ 20000	1.1	37.1	39.2	38.5	39.6	39.6	40.0	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
≥ 18000	1.1	37.1	38.2	38.5	39.6	39.6	40.0	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
≥ 16000	1.1	37.1	38.2	38.5	39.6	39.6	40.0	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
≥ 14000	1.1	37.8	38.9	39.3	40.4	40.4	40.7	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
≥ 12000	1.1	40.7	41.9	42.2	43.3	43.3	43.7	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
≥ 10000	3.7	45.9	47.0	48.2	49.3	49.3	49.6	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 9000	2.7	46.2	47.4	48.5	49.6	49.6	50.0	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
≥ 8000	4.7	51.3	52.7	54.8	56.7	57.0	57.4	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
≥ 7000	5.7	52.2	54.8	55.9	57.8	58.2	58.5	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 6000	12.5	53.3	55.7	57.4	59.3	59.6	60.0	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
≥ 5000	4.7	56.3	59.3	61.7	62.6	63.3	63.7	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 4500	4.7	59.3	62.6	64.1	67.0	67.8	68.2	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 4000	11.2	65.6	68.3	71.5	76.3	77.0	77.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 3500	13.7	67.4	71.1	73.3	79.3	80.0	80.4	81.5	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 3000	5.7	70.7	74.8	77.0	83.7	84.4	84.8	86.7	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 2500	5.7	71.1	75.2	77.8	85.2	85.9	86.3	88.2	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 2000	5.7	71.5	75.6	78.9	86.3	87.0	87.4	89.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 1800	5.7	71.9	75.9	79.3	86.7	87.4	87.8	89.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1500	5.7	72.2	76.3	80.0	89.3	90.4	90.7	93.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1200	5.7	72.6	76.7	80.4	90.4	91.5	92.2	94.4	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1000	5.7	72.6	76.7	80.4	91.1	92.6	93.7	95.9	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 900	5.7	72.6	76.7	80.7	91.5	93.0	94.1	96.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 800	5.7	72.6	76.7	80.7	91.5	93.0	94.1	96.3	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 700	5.7	72.6	76.7	80.7	91.9	93.3	94.4	96.7	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 600	5.7	72.6	76.7	80.7	91.9	93.3	94.4	96.7	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 500	5.7	72.6	76.7	80.7	92.6	94.1	95.2	97.4	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 400	5.7	73.0	77.0	81.1	93.0	94.4	95.6	97.8	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 300	5.7	73.0	77.0	81.1	93.0	94.4	95.6	97.8	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 200	5.7	73.0	77.0	81.1	93.0	94.4	95.6	97.8	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 100	5.7	73.0	77.0	81.1	93.0	94.4	95.6	97.8	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 0	5.7	73.0	77.0	81.1	93.0	94.4	95.6	97.8	98.5	98.9	98.9	98.9	98.9	98.9	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 270

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

73-82

YEARS

APC

MONTHS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

HOURS 11.5 T

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING	2.4	25.0	24.3	27.0	29.2	28.2	28.4	26.6	26.7	28.7	28.7	28.7	28.7	28.8	28.8
IV 20000	0.1	34.2	36.0	37.2	39.3	39.5	39.8	40.2	40.4	40.4	40.4	40.5	40.5	40.5	40.5
IV 18000	0.2	34.2	36.1	37.3	39.4	39.5	39.8	40.2	40.4	40.4	40.4	40.5	40.5	40.5	40.6
IV 16000	0.3	34.2	36.1	37.3	39.4	39.5	39.8	40.2	40.4	40.4	40.4	40.5	40.5	40.5	40.6
IV 14000	0.5	35.2	37.1	38.5	40.6	40.7	41.1	41.5	41.7	41.7	41.7	41.8	41.8	41.8	41.9
IV 12000	33.1	36.1	40.2	41.7	44.1	44.4	44.7	45.1	45.4	45.4	45.5	45.5	45.5	45.6	45.6
IV 10000	35.7	41.3	44.2	46.7	48.8	49.1	49.5	50.0	50.3	50.4	50.4	50.4	50.4	50.5	50.5
IV 9000	37.3	42.3	44.8	46.6	49.5	49.8	50.2	50.7	51.0	51.1	51.1	51.1	51.1	51.2	51.2
IV 8000	37.5	44.3	47.7	49.7	53.2	53.7	54.2	54.6	55.0	55.1	55.2	55.2	55.2	55.3	55.3
IV 7000	37.5	45.4	49.4	50.4	54.0	54.5	55.0	55.5	55.8	56.0	56.0	56.0	56.0	56.1	56.1
IV 6000	37.8	46.3	49.3	51.4	55.1	55.6	56.1	56.5	56.9	57.0	57.1	57.1	57.1	57.2	57.2
IV 5000	42.2	46.1	52.3	54.4	58.5	59.1	59.7	60.2	60.5	60.7	60.7	60.7	60.7	60.8	60.8
IV 4500	44.3	51.0	55.6	58.0	62.7	63.4	64.1	64.6	65.0	65.1	65.2	65.2	65.2	65.3	65.3
IV 4000	47.6	56.0	60.1	62.9	69.3	70.2	71.2	72.1	72.5	72.7	72.8	72.8	72.8	72.9	72.9
IV 3500	47.7	58.5	62.7	65.7	72.9	73.9	75.3	76.3	76.8	77.0	77.0	77.0	77.0	77.1	77.1
IV 3000	2.4	61.9	66.4	69.8	78.0	79.4	81.1	82.5	83.0	83.3	83.4	83.4	83.4	83.5	83.5
IV 2500	3.5	63.4	65.1	71.6	80.3	81.8	83.7	85.1	85.6	86.0	86.1	86.1	86.1	86.2	86.2
IV 2000	4.2	64.2	69.0	72.6	81.5	83.1	84.9	86.4	87.0	87.3	87.4	87.4	87.4	87.5	87.5
IV 1800	4.4	64.3	69.2	72.8	81.8	83.3	85.2	86.7	87.3	87.6	87.7	87.7	87.7	87.8	87.8
IV 1500	54.2	64.9	69.9	73.8	83.8	85.5	88.0	89.8	90.4	91.2	91.3	91.3	91.4	91.5	91.5
IV 1200	5.3	65.0	70.0	74.0	84.1	86.0	88.8	90.9	91.7	92.6	92.7	92.7	92.7	93.0	93.0
IV 1000	5.1	65.2	70.3	74.4	85.3	87.5	90.6	93.1	94.1	95.1	95.3	95.4	95.5	95.6	95.6
IV 900	5.2	65.3	70.3	74.6	85.5	87.7	90.9	93.4	94.4	95.5	95.7	95.8	95.9	96.0	96.0
IV 800	5.2	65.3	70.4	74.7	86.0	88.3	91.6	94.3	95.6	96.7	97.0	97.1	97.2	97.3	97.3
IV 700	5.2	65.3	70.4	74.7	86.3	88.6	91.9	94.7	95.9	97.2	97.5	97.7	97.8	97.9	97.9
IV 600	5.2	65.3	70.4	74.7	86.3	88.8	92.1	94.9	96.1	97.5	97.8	98.1	98.3	98.4	98.4
IV 500	5.2	65.3	70.5	74.7	86.6	89.2	92.6	95.5	96.8	98.2	98.6	98.9	99.1	99.2	99.2
IV 400	5.2	65.4	70.5	74.8	86.7	89.4	92.9	95.8	97.1	98.5	98.9	99.2	99.5	99.6	99.6
IV 300	5.2	65.4	70.5	74.8	86.7	89.4	92.9	95.9	97.2	98.6	99.0	99.3	99.6	99.8	99.9
IV 200	5.2	65.4	70.5	74.8	86.7	89.4	93.0	95.9	97.2	98.6	99.0	99.3	99.7	99.9	99.9
IV 100	5.2	65.4	70.5	74.8	86.7	89.4	93.0	95.9	97.2	98.6	99.0	99.3	99.7	99.9	100.0
IV 0	5.2	65.4	70.5	74.8	86.7	89.4	93.0	95.9	97.2	98.6	99.0	99.3	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS

1971

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

17-80

YEAR

MAY

MONTH

70

HOURS PER YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	26.9	26.9	31.5	37.5	72.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	33.1
≥ 20000	41.6	41.6	42.9	46.1	47.4	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.7
IV 18000	41.6	41.6	42.9	46.1	47.4	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.7
IV 16000	41.6	41.6	42.9	46.1	47.4	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.7
IV 14000	41.6	41.6	42.9	46.1	47.4	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.7
IV 12000	41.6	41.6	42.9	46.1	47.4	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.7
IV 10000	50.7	50.7	53.9	57.8	59.1	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.4
IV 9000	50.7	50.7	53.9	57.8	59.1	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.4
IV 8000	55.2	55.2	58.4	63.0	64.9	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.9
IV 7000	55.2	55.2	58.4	63.0	64.9	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.9
IV 6000	55.2	55.2	58.4	63.0	64.9	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.9
IV 5000	58.4	58.4	61.7	67.5	69.5	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	71.4
IV 4500	63.0	63.0	66.2	72.1	74.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	76.1
IV 4000	67.5	67.5	70.8	77.9	79.9	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	82.5
IV 3500	69.5	69.5	72.1	80.5	82.5	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	85.1
IV 3000	70.8	70.8	76.0	83.8	86.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.6
IV 2500	70.8	70.8	76.0	83.8	86.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.6
IV 2000	71.4	71.4	75.6	84.4	87.0	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	90.3
IV 1800	71.4	71.4	76.6	84.4	87.0	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	90.3
IV 1500	71.4	71.4	76.6	84.4	87.0	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	90.3
IV 1200	72.1	72.1	77.3	85.7	89.6	92.9	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	94.2
IV 1000	72.1	72.1	77.3	86.4	90.9	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	96.1
IV 900	72.1	72.1	77.3	86.4	90.9	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	96.1
IV 800	72.1	72.1	77.3	86.4	90.9	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	96.1
IV 700	72.1	72.1	77.3	86.4	90.9	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	96.1
IV 600	72.1	72.1	77.3	87.7	92.2	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	98.7
IV 500	72.1	72.1	77.3	87.7	92.2	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	98.7
IV 400	72.1	72.1	77.3	87.7	92.2	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	98.7
IV 300	72.1	72.1	77.3	87.7	92.2	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	98.7
IV 200	72.1	72.1	77.3	87.7	92.2	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	98.7
IV 100	72.1	72.1	77.3	87.7	92.2	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	98.7
IV 0	72.1	72.1	77.3	87.7	92.2	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	100.0

TOTAL NUMBER OF OBSERVATIONS

154

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ANHEVILLE, NC.

CEILING VERSUS VISIBILITY

STATION NAME

77-82

4AY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

03

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	37.8	39.5	32.3	32.2	37.2	37.2	37.2	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
≥ 20000	37.8	39.5	42.1	43.3	49.4	49.4	52.6	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
IV 18000	37.8	39.5	42.1	43.3	49.4	49.4	50.6	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
IV 16000	37.8	39.5	42.1	43.3	49.4	49.4	50.6	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
IV 14000	37.8	39.5	42.1	43.3	50.0	50.0	51.2	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
IV 12000	37.8	43.3	46.3	47.6	54.9	54.9	56.1	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
IV 10000	47.6	48.6	51.8	53.7	61.0	61.6	62.8	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
IV 9000	47.6	48.6	51.8	53.7	61.0	61.6	62.8	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
IV 8000	47.6	49.4	52.1	55.5	63.4	64.0	65.2	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
IV 7000	47.6	49.4	52.1	55.5	63.4	64.0	65.2	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
IV 6000	47.6	52.1	55.5	58.1	64.0	64.6	65.9	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
IV 5000	47.6	51.2	54.9	57.3	65.2	65.9	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
IV 4300	52.1	54.9	58.5	61.6	69.5	70.1	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
IV 4000	52.1	57.3	61.6	65.2	73.2	74.4	75.6	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 3500	52.1	61.6	65.2	68.9	76.8	78.1	79.3	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
IV 3000	52.1	65.9	70.7	75.6	84.2	86.0	87.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
IV 2500	52.1	65.9	70.7	75.6	84.2	86.0	87.2	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
IV 2000	52.1	65.9	70.7	75.6	85.4	87.2	88.4	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 1800	52.1	65.9	70.7	75.6	85.4	87.2	88.4	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 1500	52.1	65.9	70.7	75.6	86.6	88.4	90.2	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
IV 1200	52.1	66.5	71.3	76.8	88.4	90.9	92.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
IV 1000	52.1	66.5	71.3	76.8	89.0	92.1	93.9	96.3	96.3	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IV 900	52.1	66.5	71.3	76.8	89.0	92.1	93.9	96.3	96.3	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IV 800	52.1	66.5	71.3	76.8	89.0	92.1	93.9	96.3	97.0	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 700	52.1	66.5	71.3	76.8	89.0	92.1	93.9	96.3	97.0	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 600	52.1	66.5	71.3	76.8	89.0	92.1	93.9	96.3	97.0	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 500	52.1	66.5	71.3	76.8	89.0	92.1	93.9	96.3	97.0	97.6	97.6	97.6	97.6	98.2	98.2	98.2
IV 400	52.1	66.5	71.3	76.8	89.0	92.1	93.9	96.3	97.0	97.6	98.2	98.2	98.2	98.8	98.8	98.8
IV 300	52.1	66.5	71.3	76.8	89.0	92.1	93.9	96.3	97.0	97.6	98.2	98.8	98.8	99.4	99.4	99.4
IV 200	52.1	66.5	71.3	76.8	89.0	92.1	93.9	96.3	97.0	97.6	98.2	98.8	98.8	99.4	99.4	99.4
IV 100	52.1	66.5	71.3	76.8	89.0	92.1	93.9	96.3	97.0	97.6	98.2	98.8	98.8	99.4	99.4	100.0
IV 0	52.1	66.5	71.3	76.8	89.0	92.1	93.9	96.3	97.0	97.6	98.2	98.8	98.8	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS

164

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ANNEVILLE, MD.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

1952

YEARS

MAY

NORTH

75

HOURLY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	11.6	15.0	17.5	20.6	23.6	25.3	25.7	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
≥ 20000	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.1	42.1	42.5	42.5	42.8	42.8	42.8	42.8
18000	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
16000	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
14000	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
12000	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
10000	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
9000	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
8000	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
7000	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
6000	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
5000	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
4500	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
4000	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
3500	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
3000	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
2500	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
2000	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
1800	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
1500	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
1200	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
1000	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
900	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
800	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
700	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
600	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
500	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
400	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
300	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
200	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
100	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8
0	14.7	18.8	23.0	26.7	34.3	36.6	40.1	41.1	41.8	42.1	42.5	42.5	42.8	42.8	42.8	42.8

TOTAL NUMBER OF OBSERVATIONS

292

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHVILLE, NC

CEILING VERSUS VISIBILITY

STATION 73-01 STATION NAME YEARS MONTH DAY HOUR 11 57

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	28.3	24.1	25.1	27.5	28.0	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3
≥ 20000	50.9	37.3	41.1	42.7	42.1	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
≥ 18000	51.3	37.3	41.5	43.7	42.5	50.9	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 16000	51.3	37.3	41.5	43.7	42.5	50.9	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 14000	54.8	40.4	45.7	45.9	53.1	54.5	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 12000	58.4	40.4	45.7	46.0	55.0	57.7	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 10000	62.0	42.3	47.0	50.2	57.8	61.3	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 9000	62.0	42.3	47.0	50.2	57.8	61.3	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 8000	65.2	44.4	48.5	52.7	62.0	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 7000	65.2	44.4	48.5	52.7	62.0	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 6000	65.6	44.4	48.5	52.7	62.4	64.9	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 5000	68.8	46.2	51.6	54.8	65.6	68.1	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 4500	72.0	48.4	54.1	57.7	68.8	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 4000	76.7	50.2	55.3	59.9	73.1	75.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 3500	78.9	51.5	57.4	60.5	74.2	76.7	77.8	78.5	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 3000	85.0	54.1	60.2	63.8	79.2	82.1	83.2	84.2	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 2500	87.1	55.2	61.3	64.9	81.0	83.9	85.3	86.4	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2000	88.5	55.9	62.0	65.6	82.1	85.3	86.7	87.8	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 1800	89.3	56.3	62.4	66.0	83.4	85.7	87.1	88.5	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1500	90.3	56.3	62.7	66.3	82.8	86.0	87.8	89.3	90.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1200	92.5	56.6	63.1	66.7	83.9	87.1	89.3	91.7	91.8	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 1000	96.4	56.6	63.1	66.7	85.3	88.9	91.4	93.2	94.6	96.1	96.4	96.4	96.4	96.4	96.4	96.4
≥ 900	97.1	56.6	63.1	66.7	85.3	88.9	91.4	93.6	95.0	96.2	97.1	97.1	97.1	97.1	97.1	97.1
≥ 800	98.2	56.6	63.1	67.4	86.0	89.6	92.5	94.6	96.1	97.9	98.2	98.2	98.2	98.2	98.2	98.2
≥ 700	99.6	56.6	63.1	67.4	86.0	89.6	92.5	95.3	96.8	98.9	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600	99.6	56.6	63.1	67.4	86.0	89.6	92.5	95.3	96.8	98.9	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500	99.6	56.6	63.1	67.4	86.0	89.6	92.5	95.3	96.8	98.9	99.6	99.6	99.6	99.6	99.6	99.6
≥ 400	99.6	56.6	63.1	67.4	86.0	89.6	92.5	95.3	97.1	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	99.6	56.6	63.1	67.4	86.0	89.6	92.5	95.3	97.1	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	99.6	56.6	63.1	67.4	86.0	89.6	92.5	95.3	97.1	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	99.6	56.6	63.1	67.4	86.0	89.6	92.5	95.3	97.1	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	99.6	56.6	63.1	67.4	86.0	89.6	92.5	95.3	97.1	99.3	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 279

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MAY

MONTH

12

HOURS PER DAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	22.7	27.1	27.4	28.7	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
IV 20000	22.7	45.3	48.1	49.8	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IV 18000	27.7	45.3	48.4	51.2	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
IV 16000	37.7	45.3	48.4	51.2	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
IV 14000	47.7	46.4	49.8	51.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
IV 12000	47.7	51.9	51.4	57.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
IV 10000	47.7	52.6	57.1	58.8	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IV 9000	44.3	52.6	56.1	59.8	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IV 8000	45.3	54.7	58.5	61.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 7000	45.3	54.7	58.5	61.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 6000	47.7	56.1	59.9	62.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 5000	47.8	57.1	60.9	63.7	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
IV 4500	47.8	58.1	62.3	65.1	69.2	69.2	69.2	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
IV 4000	47.8	60.2	62.1	67.8	73.4	73.4	73.4	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
IV 3500	47.8	61.9	67.1	69.9	75.8	75.8	75.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IV 3000	47.8	65.1	71.2	73.7	80.2	80.3	80.6	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
IV 2500	47.8	67.5	74.1	76.8	84.1	84.1	84.4	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IV 2000	47.8	69.2	75.8	78.6	86.5	86.5	86.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
IV 1800	47.8	69.2	75.8	78.6	86.5	86.5	86.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
IV 1500	47.8	69.9	76.5	79.2	87.5	87.5	87.9	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 1200	47.8	69.9	76.5	79.2	88.2	88.2	88.6	91.4	91.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0
IV 1000	47.8	69.9	76.5	79.2	88.9	88.9	90.7	92.4	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 900	47.8	69.9	76.5	79.2	88.9	88.9	90.7	92.4	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 800	47.8	69.9	76.5	79.2	88.9	88.9	90.7	92.4	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 700	47.8	69.9	76.5	79.2	88.9	88.9	90.7	92.4	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 600	47.8	69.9	76.5	79.2	88.9	88.9	90.7	92.4	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 500	47.8	69.9	76.5	79.2	88.9	88.9	90.7	92.4	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 400	47.8	69.9	76.5	79.2	88.9	88.9	90.7	92.4	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 300	47.8	69.9	76.5	79.2	88.9	88.9	90.7	92.4	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 200	47.8	69.9	76.5	79.2	88.9	88.9	90.7	92.4	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 100	47.8	69.9	76.5	79.2	88.9	88.9	90.7	92.4	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 0	47.8	69.9	76.5	79.2	88.9	88.9	90.7	92.4	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8

TOTAL NUMBER OF OBSERVATIONS

289

DIRNAVOCEANMET SMOS

NAVAL WEATHER BUREAU ATTACHMENT A, HUSTON, TX

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MAY
MONTH

10

HOURS PER DAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0.16	≥ 0
NO CEILING	7.7	7.7	3.7	7.7	30.9	0.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
≥ 20000	7.1	5.1	51.4	51.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
IV 18000	7.1	5.1	51.4	51.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
IV 16000	7.1	5.1	51.4	51.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
IV 14000	4.1	52.4	53.1	53.8	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
IV 12000	7.3	57.6	55.3	55.0	65.3	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
IV 10000	7.1	51.4	60.8	63.5	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 9000	2.1	61.8	62.9	63.5	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 8000	2.1	63.2	64.2	64.2	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
IV 7000	2.1	63.2	64.2	64.2	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
IV 6000	3.5	63.0	64.2	65.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
IV 5000	4.5	64.4	64.7	66.7	68.8	68.3	68.3	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
IV 4500	7.1	67.7	67.1	69.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
IV 4000	7.1	70.5	72.6	73.6	75.4	76.4	76.4	76.4	76.4	76.7	76.7	76.7	76.7	76.7	76.7
IV 3500	7.1	72.4	75.4	77.1	80.2	80.6	80.6	80.6	80.6	80.9	80.9	80.9	80.9	80.9	80.9
IV 3000	1.7	75.4	77.8	80.9	84.4	84.7	84.7	84.7	84.7	85.1	85.1	85.1	85.1	85.1	85.1
IV 2500	1.7	76.4	79.9	81.9	85.4	86.5	86.5	86.5	86.5	86.8	86.8	86.8	86.8	86.8	86.8
IV 2000	4.1	78.5	82.3	84.7	88.2	89.2	89.2	89.6	89.6	89.9	89.9	89.9	89.9	89.9	89.9
IV 1800	4.1	78.5	82.6	85.1	88.5	89.6	89.6	89.9	89.9	90.3	90.3	90.3	90.3	90.3	90.3
IV 1500	4.1	78.8	87.1	85.4	89.2	90.3	90.6	91.0	91.0	91.3	91.3	91.3	91.3	91.3	91.3
IV 1200	4.1	78.8	87.3	85.8	89.3	91.3	92.0	92.4	93.1	93.4	93.4	93.4	93.4	93.4	93.4
IV 1000	4.1	78.8	87.7	86.1	90.5	91.7	92.4	92.7	93.4	94.4	94.4	94.4	94.4	94.4	94.4
IV 900	4.1	78.8	87.3	86.1	90.6	91.7	92.4	92.7	93.4	94.4	94.4	94.4	94.4	94.4	94.4
IV 800	4.1	79.5	84.3	86.8	91.3	92.4	93.4	94.1	94.4	95.8	95.8	95.8	95.8	95.8	95.8
IV 700	4.1	79.5	84.0	87.2	91.7	92.7	94.1	95.1	96.2	97.6	97.6	97.6	97.6	97.6	97.6
IV 600	4.1	79.5	84.0	87.2	91.7	93.1	94.4	95.5	96.5	97.9	98.3	98.3	98.3	98.3	98.3
IV 500	4.1	79.5	84.0	87.2	92.0	93.4	94.8	96.2	97.2	98.6	99.7	99.7	99.7	99.7	99.7
IV 400	4.1	79.5	84.0	87.2	92.0	93.4	94.8	96.5	97.9	99.3	99.7	99.7	99.7	99.7	99.7
IV 300	4.1	79.5	84.0	87.2	92.4	93.8	95.1	96.9	98.3	99.7	100.0	100.0	100.0	100.0	100.0
IV 200	4.1	79.5	84.0	87.2	92.4	93.8	95.1	96.9	98.3	99.7	100.0	100.0	100.0	100.0	100.0
IV 100	4.1	79.5	84.0	87.2	92.4	93.8	95.1	96.9	98.3	99.7	100.0	100.0	100.0	100.0	100.0
IV 0	4.1	79.5	84.0	87.2	92.4	93.8	95.1	96.9	98.3	99.7	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 28

DIRNAVOCEANMET SMOS

NATIONAL WEATHER SERVICE STATION NAME AND ADDRESS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

DAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

18
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 20000	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 18000	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 16000	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 14000	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 12000	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 10000	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 9000	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 8000	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 7000	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 6000	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 5000	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 4500	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 4000	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 3500	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 3000	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 2500	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 2000	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 1800	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 1500	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 1200	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 1000	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 900	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 800	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 700	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 600	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 500	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 400	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 300	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 200	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 100	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
≥ 0	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7

TOTAL NUMBER OF OBSERVATIONS 256

DIVISION OF METEOROLOGY

NAVAL WEATHER SERVICE DETACHMENT ASHVILLE, NC

CEILING VERSUS VISIBILITY

STATION

21, 1954

STATION NAME

73-02

YEARS

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21

HOURLY OBSERVATIONS

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	≥ 5/16	≥ ¼
NO CEILING	37.5	37.1	27.5	20.8	19.9	31.3	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 20000	1.7	36.7	37.5	4.2	42.4	43.9	43.0	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
≥ 18000	1.7	36.7	37.5	4.2	42.4	43.9	43.0	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
≥ 16000	1.7	36.7	37.5	4.2	42.4	43.9	43.0	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
≥ 14000	2.0	37.4	4.2	41.3	47.8	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 12000	2.0	42.7	45.6	46.6	49.5	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
≥ 10000	2.0	45.1	52.0	53.4	56.2	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 9000	4.2	45.1	52.7	54.1	56.9	58.4	58.4	59.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 8000	4.2	54.2	57.7	59.1	62.3	64.8	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 7000	4.2	56.2	59.4	61.6	64.1	66.6	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥ 6000	4.2	56.2	59.4	61.6	64.1	66.6	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 5000	4.2	58.1	61.6	63.4	66.0	69.4	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
≥ 4500	3.7	61.9	65.5	67.6	71.2	73.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 4000	3.7	64.8	69.7	70.8	75.1	77.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 3500	2.7	68.0	71.9	74.0	78.3	80.8	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 3000	2.7	70.8	74.7	76.9	81.5	84.0	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 2500	2.7	72.2	76.2	79.0	84.0	86.5	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 2000	2.1	73.0	77.2	80.1	85.1	87.5	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1800	2.1	73.0	77.2	80.1	85.1	87.5	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1600	2.1	73.3	77.6	80.4	87.5	90.4	92.5	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 1400	2.1	73.7	77.9	81.1	88.3	91.5	94.0	94.7	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1200	2.5	74.3	79.3	81.5	88.6	91.8	94.3	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000	2.5	74.7	79.3	81.5	88.6	91.8	94.3	96.1	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 900	2.5	74.0	79.3	81.5	88.6	92.2	94.7	96.4	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 800	2.5	74.0	79.3	81.5	88.6	92.2	94.7	96.4	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 700	2.5	74.0	79.3	81.5	88.6	92.2	94.7	96.4	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 600	2.5	74.0	79.3	81.5	88.6	92.2	94.7	96.4	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 500	2.5	74.0	79.3	81.5	88.6	92.2	94.7	96.4	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 400	2.5	74.0	79.3	81.5	88.6	92.2	94.7	96.4	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 300	2.5	74.0	79.3	81.5	88.6	92.2	94.7	96.4	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 200	2.5	74.0	79.3	81.5	88.6	92.2	94.7	96.4	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 100	2.5	74.0	79.3	81.5	88.6	92.2	94.7	96.4	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 0	2.5	74.0	79.3	81.5	88.6	92.2	94.7	96.4	97.2	97.2	97.2	97.2	97.2	97.2	97.2

TOTAL NUMBER OF OBSERVATIONS

251

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHVEILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

37-52

YEARS

MAY
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)ALL
HOURLY OBS.

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1 1/2	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING	1.3	24.7	26.3	26.7	28.8	29.1	29.4	29.5	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.7
IV 20000	2.2	28.1	40.6	42.2	45.9	46.6	47.5	47.7	47.8	47.9	47.9	47.9	48.0	48.0	48.0	48.0
IV 18000	2.5	29.1	40.7	42.3	46.0	46.9	47.6	47.8	47.9	48.0	48.0	48.0	48.0	48.1	48.1	48.1
IV 16000	2.6	31.1	41.7	42.3	46.0	46.9	47.6	47.8	47.9	48.0	48.0	48.0	48.0	48.1	48.1	48.1
IV 14000	2.8	31.4	42.3	44.1	49.0	49.6	49.9	50.0	50.0	50.1	50.1	50.1	50.1	50.1	50.1	50.2
IV 12000	2.4	43.8	46.9	49.7	53.0	54.8	55.0	55.1	55.2	55.3	55.3	55.3	55.3	55.3	55.3	55.4
IV 10000	2.7	46.0	51.1	52.4	57.1	58.2	59.1	59.4	59.5	59.5	59.6	59.6	59.7	59.7	59.7	59.8
IV 9000	2.0	47.1	51.4	52.6	57.4	58.5	59.4	59.6	59.9	59.9	60.0	60.0	60.1	60.1	60.1	60.2
IV 8000	2.3	49.9	53.6	56.1	61.2	62.8	63.8	64.2	64.3	64.4	64.5	64.5	64.6	64.6	64.6	64.7
IV 7000	2.6	50.2	53.9	55.4	61.7	63.2	64.3	64.7	64.8	64.9	65.0	65.0	65.1	65.1	65.1	65.2
IV 6000	2.1	50.3	54.7	57.2	62.7	64.2	65.3	65.6	65.7	65.9	66.0	66.0	66.0	66.1	66.1	66.1
IV 5000	4.4	52.8	56.8	59.3	65.2	66.8	67.8	68.2	68.3	68.5	68.6	68.6	68.6	68.7	68.7	68.7
IV 4500	4.7	55.5	57.7	62.5	68.7	70.3	71.4	72.0	72.1	72.2	72.3	72.3	72.3	72.4	72.4	72.4
IV 4000	4.9	58.1	62.7	65.6	72.8	74.6	76.0	76.6	76.7	77.0	77.0	77.0	77.1	77.1	77.1	77.2
IV 3500	5.0	60.0	64.9	68.1	75.7	77.6	79.0	80.0	80.2	80.5	80.6	80.6	80.6	80.7	80.7	80.7
IV 3000	2.0	62.7	67.8	71.4	79.7	81.9	83.5	84.7	85.0	85.3	85.4	85.4	85.5	85.5	85.5	85.6
IV 2500	3.2	63.6	68.8	72.5	81.3	83.6	85.2	86.4	86.8	87.2	87.3	87.3	87.4	87.4	87.4	87.5
IV 2000	4.0	64.5	69.9	73.6	82.6	85.0	86.7	88.0	88.4	88.8	88.9	88.9	89.0	89.0	89.0	89.1
IV 1800	4.0	64.6	70.0	73.7	82.7	85.1	86.8	88.1	88.6	89.0	89.1	89.1	89.1	89.2	89.2	89.2
IV 1500	4.1	64.7	70.2	73.9	83.7	86.2	88.2	89.6	90.2	90.9	91.0	91.0	91.0	91.1	91.1	91.1
IV 1200	4.2	64.9	70.5	74.3	84.6	87.3	89.6	91.0	91.0	92.6	92.8	92.8	92.8	92.9	92.9	92.9
IV 1000	4.4	65.1	70.6	74.6	85.0	88.2	90.7	92.5	93.5	94.6	94.8	94.8	94.9	94.9	94.9	95.0
IV 900	4.4	65.1	70.6	74.6	85.4	88.2	90.8	92.7	93.7	94.8	95.0	95.0	95.1	95.1	95.1	95.2
IV 800	4.5	65.2	70.7	74.8	85.9	88.8	91.5	93.6	94.9	96.2	96.5	96.5	96.5	96.6	96.6	96.6
IV 700	4.5	65.2	70.7	74.9	86.1	89.1	91.9	94.3	95.7	97.1	97.5	97.5	97.5	97.6	97.6	97.6
IV 600	4.5	65.2	70.7	74.9	86.4	89.4	92.3	94.8	96.4	97.9	98.3	98.3	98.4	98.5	98.5	98.6
IV 500	4.5	65.2	70.7	74.9	86.4	89.5	92.4	95.0	96.6	98.0	98.5	98.5	98.6	98.6	98.8	98.9
IV 400	4.5	65.2	70.7	74.9	86.4	89.5	92.4	95.2	96.9	98.5	99.0	99.1	99.2	99.4	99.5	99.6
IV 300	4.5	65.2	70.7	74.9	86.5	89.6	92.5	95.3	97.1	98.6	99.2	99.3	99.4	99.7	99.7	99.8
IV 200	4.5	65.2	70.7	74.9	86.5	89.6	92.6	95.4	97.1	98.7	99.3	99.3	99.4	99.8	99.8	99.9
IV 100	4.5	65.2	70.7	74.9	86.5	89.6	92.6	95.4	97.1	98.7	99.3	99.3	99.4	99.8	99.8	100.0
IV 0	4.5	65.2	70.7	74.9	86.5	89.6	92.6	95.4	97.1	98.7	99.3	99.3	99.4	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS

2043

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHVILLE, NC

CEILING VERSUS VISIBILITY

STATION NAME
ASHVILLE, NORTH CAROLINA

76-8

YEARS

JUN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

00

NOVEMBER 1957

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	1.7	7.7	21.4	23.1	24.9	24.9	25.4	25.4	25.4	26.0	26.0	26.0	26.0	26.0	26.0	26.0
≥ 20000	2.0	23.1	24.3	27.2	32.4	32.4	33.5	33.5	34.1	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 18000	2.0	23.1	24.3	27.2	32.4	32.4	33.5	33.5	34.1	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 16000	2.0	23.1	24.3	27.2	32.4	32.4	33.5	33.5	34.1	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 14000	2.0	23.1	24.3	27.2	33.0	33.0	34.1	34.1	34.7	35.3	35.3	35.3	35.3	35.3	35.3	35.3
IV 12000	3.3	30.1	31.8	34.7	41.6	42.2	43.4	43.4	43.9	44.5	44.5	44.5	44.5	44.5	44.5	44.5
IV 10000	34.7	76.4	39.3	42.2	50.3	50.9	52.0	52.6	53.2	53.8	53.8	53.8	53.8	53.8	53.8	53.8
IV 9000	37.6	39.3	42.2	45.1	53.2	53.8	54.9	55.5	56.1	56.7	56.7	56.7	56.7	56.7	56.7	56.7
IV 8000	43.4	45.1	48.6	52.0	60.1	60.7	61.9	62.4	63.0	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 7000	3.4	45.1	49.6	52.0	60.1	60.7	61.9	62.4	63.0	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 6000	43.4	45.1	49.6	52.0	60.1	60.7	61.9	62.4	63.0	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 5000	43.4	46.8	50.3	54.3	64.2	64.7	65.9	66.5	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 4500	45.7	47.4	50.9	54.9	65.3	65.9	67.6	68.2	68.8	69.4	69.4	69.4	69.4	69.4	69.4	69.4
IV 4000	4.1	50.7	56.1	60.1	71.1	72.3	74.0	75.7	76.3	76.9	76.9	76.9	76.9	76.9	76.9	76.9
IV 3500	5.1	52.6	57.3	61.9	77.4	75.1	76.9	79.2	79.8	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 3000	2.6	54.9	6.1	64.2	76.3	78.0	80.4	83.2	83.8	85.0	85.0	85.0	85.0	85.0	85.0	85.0
IV 2500	3.2	55.5	6.7	64.7	76.9	78.6	81.5	84.4	85.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1
IV 2000	3.7	56.1	61.3	65.3	77.5	79.2	82.1	85.0	85.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7
IV 1800	53.7	56.1	61.3	65.3	77.5	79.2	82.1	85.0	86.1	87.3	87.3	87.3	87.3	87.3	87.3	87.3
IV 1500	53.7	56.7	61.9	65.9	78.0	80.9	84.4	87.3	88.4	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 1200	53.7	56.7	62.4	66.5	80.4	83.8	87.3	90.2	91.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 1000	53.7	56.7	62.4	66.5	80.9	84.4	88.4	91.9	93.1	94.8	95.4	95.4	95.4	95.4	95.4	95.4
IV 900	53.7	56.7	62.4	66.5	80.9	84.4	88.4	91.9	93.1	94.8	95.4	95.4	95.4	95.4	95.4	95.4
IV 800	53.7	56.7	62.4	66.5	80.9	85.0	89.0	92.5	93.6	95.4	96.0	96.0	96.0	96.0	96.0	96.0
IV 700	53.7	56.7	62.4	66.5	80.9	85.0	89.6	93.1	94.2	96.0	97.1	97.1	97.1	97.1	97.1	97.1
IV 600	53.7	56.7	62.4	66.5	80.9	85.0	89.6	93.1	94.8	96.5	97.7	97.7	97.7	97.7	97.7	97.7
IV 500	53.7	56.7	62.4	66.5	80.9	85.0	89.6	93.1	94.8	97.1	98.3	98.3	98.3	98.3	98.3	98.3
IV 400	4.3	57.2	63.0	67.1	82.1	86.1	90.8	94.2	96.5	98.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	4.3	57.2	63.0	67.1	82.1	86.1	90.8	94.2	96.5	98.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	4.3	57.2	63.0	67.1	82.1	86.1	90.8	94.2	96.5	98.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	4.3	57.2	63.0	67.1	82.1	86.1	90.8	94.2	96.5	98.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	4.3	57.2	63.0	67.1	82.1	86.1	90.8	94.2	96.5	98.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

173

DIRNAVOCEANMET SMOS

NAVAL WEATHER DETACHMENT ASHVILLE, NC

CEILING VERSUS VISIBILITY

STATION NO

STATION NAME

76-80

YEARS

JUN
1963PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)03
HOURS (L & T)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
≥ 20000	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 18000	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 16000	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 14000	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 12000	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 10000	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 9000	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 8000	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 7000	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 6000	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 5000	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 4500	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 4000	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 3500	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 3000	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 2500	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 2000	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 1800	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 1500	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 1200	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 1000	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 900	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 800	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 700	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 600	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 500	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 400	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 300	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 200	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 100	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
IV 0	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3

TOTAL NUMBER OF OBSERVATIONS

173

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION NAME: 73-PT DATE: JUN 1966 MONTH: JUN YEAR: 1966
PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)
NUMBER OF HOURS: 72

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	1.2	3.3	4.6	5.7	7.1	8.5	10.3	10.6	10.6	11.0	11.0	11.0	11.0	11.0	11.0	11.3
≥ 20000	1.4	5.4	7.1	9.2	13.4	15.0	18.0	19.4	19.4	19.8	19.8	19.8	19.8	19.8	19.8	20.1
≥ 18000	1.4	6.4	7.1	9.2	13.4	15.0	18.0	19.4	19.4	19.8	19.8	19.8	19.8	19.8	19.8	20.1
≥ 16000	1.4	6.4	7.1	9.2	13.4	15.0	18.0	19.4	19.4	19.8	19.8	19.8	19.8	19.8	19.8	20.1
≥ 14000	1.4	7.1	8.8	11.0	15.6	18.4	20.5	21.9	21.9	22.3	22.3	22.3	22.3	22.3	22.3	22.6
≥ 12000	1.8	9.2	11.3	13.4	19.4	22.6	24.7	26.2	26.2	27.2	27.6	27.6	27.6	27.6	27.6	28.3
≥ 10000	2.9	10.6	13.8	15.9	23.0	26.9	29.7	32.2	32.5	33.9	34.6	34.6	34.6	34.6	34.6	35.3
≥ 9000	2.9	10.6	13.8	15.9	23.0	26.9	29.7	32.2	32.5	33.9	34.6	34.6	34.6	34.6	34.6	35.3
≥ 8000	12.7	12.7	16.6	15.7	26.5	30.4	33.2	36.0	36.4	38.2	38.9	38.9	38.9	38.9	38.9	39.6
≥ 7000	12.7	13.1	17.0	19.1	26.5	30.7	33.6	36.4	36.0	38.5	39.2	39.2	39.2	39.2	39.2	39.9
≥ 6000	13.4	14.9	19.7	20.9	28.6	32.3	35.3	38.2	38.5	40.3	41.0	41.0	41.0	41.0	41.0	41.7
≥ 5000	14.5	15.6	19.8	22.3	30.7	35.0	38.2	41.3	41.7	43.5	44.2	44.2	44.2	44.2	44.2	44.9
≥ 4500	15.6	17.7	21.2	23.7	32.5	37.1	42.1	45.6	45.0	47.7	48.8	48.8	47.8	48.8	48.8	49.5
≥ 4000	15.6	18.0	22.3	26.2	36.0	41.7	47.4	51.9	53.0	55.5	56.5	56.5	56.5	56.5	56.5	57.2
≥ 3500	17.4	20.0	25.1	30.0	41.7	47.0	53.4	59.4	60.4	63.6	64.7	64.7	64.7	64.7	64.7	65.4
≥ 3000	17.4	21.2	25.4	31.5	44.5	49.8	56.5	63.6	65.7	68.9	70.0	70.3	70.3	70.3	70.3	71.0
≥ 2500	17.4	21.2	25.4	31.5	45.6	50.9	58.0	65.7	67.8	71.0	72.4	72.8	72.8	72.8	72.8	73.5
≥ 2000	17.4	22.3	26.2	31.9	46.6	52.3	59.7	67.5	69.6	72.8	74.2	74.6	74.6	74.6	74.6	75.3
≥ 1800	17.4	22.3	27.2	33.2	47.7	53.4	60.8	68.9	71.0	74.2	75.6	76.0	76.0	76.0	76.0	76.7
≥ 1500	1.2	23.0	27.6	33.6	49.8	54.3	62.5	71.0	73.5	76.7	79.1	78.8	78.8	78.8	79.2	79.9
≥ 1200	1.2	23.0	27.6	33.6	49.8	56.2	64.7	73.9	77.0	80.6	82.7	83.4	83.4	83.4	83.8	84.5
≥ 1000	1.2	23.0	27.6	33.6	49.5	56.5	65.4	76.7	79.9	84.5	86.6	87.3	87.6	87.6	88.0	88.7
≥ 900	1.2	23.0	27.6	33.6	49.8	56.9	65.7	77.0	80.2	84.8	86.9	87.6	88.0	88.0	88.3	89.1
≥ 800	1.2	23.0	27.6	33.6	50.2	57.2	66.6	78.1	82.7	87.6	90.5	91.5	91.9	91.9	92.2	93.3
≥ 700	1.2	23.0	27.6	33.6	50.9	58.3	68.2	79.9	84.5	89.4	92.2	93.6	94.0	94.0	94.4	95.4
≥ 600	1.2	23.0	27.6	33.6	51.6	59.0	69.3	81.3	85.9	90.8	93.6	95.1	95.4	95.4	95.8	96.6
≥ 500	1.2	23.3	27.2	33.9	51.9	59.4	69.6	81.6	86.6	91.9	95.1	96.5	96.8	96.8	97.2	98.2
≥ 400	1.2	23.7	28.3	34.3	52.3	59.7	70.0	82.0	86.9	92.2	95.8	97.2	97.5	97.5	98.2	99.3
≥ 300	1.2	23.7	28.3	34.3	52.7	60.1	70.3	82.7	87.6	92.9	96.5	97.9	98.2	98.2	98.9	100.0
≥ 200	1.2	23.7	28.3	34.3	52.7	60.1	70.3	82.7	87.6	92.9	96.5	97.9	98.2	98.2	98.9	100.0
≥ 100	1.2	23.7	28.3	34.3	52.7	60.1	70.3	82.7	87.6	92.9	96.5	97.9	98.2	98.2	98.9	100.0
≥ 0	1.2	23.7	28.3	34.3	52.7	60.1	70.3	82.7	87.6	92.9	96.5	97.9	98.2	98.2	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 283

NAVAL WEATHER SERVICE DETACHMENT ASHVILLE, NC

CEILING VERSUS VISIBILITY

STATION

DATE

STATION NAME

12-82

YEARS

JUN

MOUTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

09

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	7.5	9.6	7.7	1.1	1.2	12.6	12.6	12.6	12.6	12.6	12.6	12.6	17.6	12.6	12.6	12.6
≥ 20000	11.1	13.3	15.1	16.2	21.2	22.7	22.7	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
≥ 18000	11.1	13.3	15.1	16.2	21.2	22.7	22.7	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
≥ 16000	11.1	13.3	15.1	16.2	21.2	22.7	22.7	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
≥ 14000	17.3	14.4	17.3	18.7	23.7	25.2	25.2	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
≥ 12000	17.3	17.3	20.1	22.3	23.8	31.5	31.7	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
≥ 10000	17.3	19.8	23.4	25.5	33.5	36.7	37.1	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
≥ 9000	17.3	19.8	23.4	25.5	33.5	36.7	37.1	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
≥ 8000	17.3	21.9	24.8	27.3	36.3	39.6	40.3	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
≥ 7000	17.3	21.2	25.2	27.7	36.7	39.9	41.0	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
≥ 6000	17.3	22.3	26.3	28.8	37.8	41.7	42.1	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
≥ 5000	17.3	23.4	27.3	29.9	39.6	42.8	43.9	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
≥ 4500	17.3	24.5	28.3	31.7	41.4	45.7	46.0	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
≥ 4000	23.7	25.2	30.9	33.8	44.2	48.2	49.3	51.8	51.8	51.8	52.2	52.2	52.2	52.2	52.2	52.2
≥ 3500	23.7	28.8	33.4	37.4	49.3	53.6	55.4	58.6	58.6	59.0	59.4	59.4	59.4	59.4	59.4	59.4
≥ 3000	23.7	30.2	35.3	38.9	52.9	57.6	60.1	64.0	64.0	65.1	65.5	65.5	65.5	65.5	65.5	65.5
≥ 2500	23.7	32.7	37.8	41.4	57.6	62.6	65.5	69.4	69.4	70.9	71.2	71.2	71.2	71.2	71.2	71.2
≥ 2000	23.7	34.2	39.2	42.8	59.7	64.9	68.4	72.3	73.0	74.1	74.5	74.5	74.5	74.5	74.5	74.5
≥ 1800	23.7	34.5	39.6	43.2	60.1	65.1	68.7	72.7	73.4	74.5	74.8	74.8	74.8	74.8	74.8	74.8
≥ 1600	23.7	36.3	41.7	45.7	64.4	69.4	73.4	77.3	78.1	79.9	80.2	80.2	80.2	80.2	80.2	80.2
≥ 1400	23.7	37.1	42.5	46.4	66.2	71.6	76.3	81.3	82.0	84.2	85.3	85.3	85.3	85.3	85.3	85.3
≥ 1200	23.7	37.1	42.5	46.8	67.6	73.4	79.5	84.5	85.3	88.1	89.2	89.2	89.2	89.2	89.2	89.2
≥ 1000	23.7	37.1	42.5	46.8	67.6	73.4	79.5	84.5	85.3	88.1	89.2	89.2	89.2	89.2	89.2	89.2
≥ 900	23.7	37.8	43.2	47.5	70.1	76.6	83.1	88.1	89.9	93.5	95.0	95.0	95.0	95.0	95.0	95.0
≥ 800	23.7	37.8	43.2	47.5	70.1	76.6	83.1	88.1	89.9	93.5	95.0	95.0	95.0	95.0	95.0	95.0
≥ 700	23.7	37.8	43.2	47.5	70.1	76.6	83.1	88.1	89.9	93.5	95.0	95.0	95.0	95.0	95.0	95.0
≥ 600	23.7	37.8	43.2	47.5	70.1	76.6	83.1	88.1	89.9	93.5	95.0	95.0	95.0	95.0	95.0	95.0
≥ 500	23.7	37.8	43.2	47.5	70.1	76.6	83.1	88.1	89.9	93.5	95.0	95.0	95.0	95.0	95.0	95.0
≥ 400	23.7	37.8	43.2	47.5	70.1	76.6	83.1	88.1	89.9	93.5	95.0	95.0	95.0	95.0	95.0	95.0
≥ 300	23.7	37.8	43.2	47.5	70.1	76.6	83.1	88.1	89.9	93.5	95.0	95.0	95.0	95.0	95.0	95.0
≥ 200	23.7	37.8	43.2	47.5	70.1	76.6	83.1	88.1	89.9	93.5	95.0	95.0	95.0	95.0	95.0	95.0
≥ 100	23.7	37.8	43.2	47.5	70.1	76.6	83.1	88.1	89.9	93.5	95.0	95.0	95.0	95.0	95.0	95.0
≥ 0	23.7	37.8	43.2	47.5	70.1	76.6	83.1	88.1	89.9	93.5	95.0	95.0	95.0	95.0	95.0	95.0

TOTAL NUMBER OF OBSERVATIONS

278

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ANNEVILLE, NC

CEILING VERSUS VISIBILITY

STATION NAME: 73-22 YEARS: JUN MONTH: 12 HOURS: 12

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	11.1	11.1	11.1	11.1	11.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 70000	11.1	19.4	21.5	22.5	24.9	24.9	25.3	25.3	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6
≥ 18000	11.1	19.7	21.5	23.2	25.6	25.6	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
≥ 16000	11.1	19.7	21.5	23.2	25.6	25.6	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
≥ 14000	11.1	21.5	23.2	24.9	25.6	28.1	28.4	28.4	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
≥ 12000	11.1	25.6	28.0	30.5	33.9	33.9	34.3	34.3	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
≥ 10000	11.1	27.7	30.5	33.9	37.7	37.7	38.1	38.1	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
≥ 9000	11.1	27.7	31.5	34.6	37.7	39.1	39.5	39.5	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
≥ 8000	11.1	29.4	33.9	37.7	43.3	43.3	43.6	43.6	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 7000	11.1	30.1	34.3	37.7	43.3	44.3	44.6	44.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
≥ 6000	11.1	30.5	35.0	38.8	44.6	45.0	45.3	45.3	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
≥ 5000	11.1	32.7	37.0	40.8	47.4	47.8	48.1	48.1	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
≥ 4500	11.1	33.2	37.4	41.2	49.1	49.5	49.8	49.8	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
≥ 4000	11.1	35.6	41.1	44.6	54.3	55.0	55.4	55.4	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 3500	11.1	37.4	41.9	47.4	59.1	59.2	61.2	60.2	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
≥ 3000	11.1	37.4	43.6	51.2	63.7	64.4	66.4	66.4	67.8	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 2500	11.1	42.6	44.1	55.4	69.6	71.6	73.7	73.7	75.1	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 2000	11.1	45.0	50.9	58.1	73.7	75.1	77.5	77.5	78.9	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 1800	11.1	45.0	50.9	58.1	73.7	75.1	77.9	77.9	79.2	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥ 1500	11.1	45.7	51.6	57.5	76.5	78.9	82.4	82.4	83.7	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 1700	11.1	47.4	53.3	61.3	78.2	81.3	85.1	85.8	87.2	88.2	88.6	88.6	88.6	88.6	88.6	88.6
≥ 1000	11.1	48.1	54.0	61.9	78.6	83.4	87.9	87.3	90.7	91.7	92.0	92.0	92.0	92.0	92.0	92.0
≥ 900	11.1	48.1	54.0	61.9	79.6	83.7	88.2	89.6	91.0	92.0	92.4	92.4	92.4	92.4	92.4	92.4
≥ 800	11.1	48.1	54.0	61.9	80.3	84.4	89.6	91.4	92.7	94.8	95.2	95.2	95.2	95.2	95.2	95.2
≥ 700	11.1	48.1	54.0	61.9	80.6	85.3	91.7	92.4	94.1	96.2	96.5	96.5	96.5	96.5	96.5	96.5
≥ 600	11.1	48.1	54.0	61.9	80.6	85.8	91.7	93.1	95.2	97.6	98.3	98.3	98.3	98.3	98.3	98.3
≥ 500	11.1	48.1	54.0	61.9	80.6	86.2	91.7	94.1	96.2	99.0	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	11.1	48.1	54.0	61.9	80.6	86.2	91.7	94.5	96.5	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	11.1	48.1	54.0	61.9	80.6	86.2	91.7	94.5	96.5	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	11.1	48.1	54.0	61.9	80.6	86.2	91.7	94.5	96.5	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	11.1	48.1	54.0	61.9	80.6	86.2	91.7	94.5	96.5	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	11.1	48.1	54.0	61.9	80.6	86.2	91.7	94.5	96.5	99.3	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 289

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT WAIL VILLE NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

JUN

15

HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	1.4	13.4	15.1	15.1	15.8	15.8	15.9	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
≥ 20000	2.5	28.2	31.9	32.0	34.4	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
IV 18000	2.5	28.4	31.8	32.3	34.7	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
IV 16000	2.5	28.5	31.8	32.3	34.7	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
IV 14000	2.5	30.6	33.3	34.4	37.1	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
IV 12000	3.3	36.4	39.5	40.9	44.3	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
IV 10000	5.1	40.7	44.7	46.7	50.5	51.2	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IV 9000	5.1	40.7	44.7	46.7	50.5	51.2	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IV 8000	5.2	42.0	46.7	49.1	53.3	54.0	54.3	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
IV 7000	5.3	43.3	47.4	49.8	54.0	54.6	55.0	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
IV 6000	4.7	43.5	47.8	51.2	54.6	55.3	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
IV 5000	3.7	46.4	5.5	53.3	57.7	58.4	58.8	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
IV 4500	4.0	47.1	52.2	55.7	61.8	61.9	62.2	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
IV 4000	45.7	49.5	55.0	59.8	64.6	65.6	66.3	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
IV 3500	47.4	51.2	56.7	61.2	67.7	69.4	70.1	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 3000	4.7	52.6	58.4	63.2	71.8	73.5	74.2	74.9	74.9	74.9	75.3	75.3	75.3	75.3	75.3	75.3
IV 2500	5.2	54.3	60.8	65.6	74.6	76.6	77.3	78.4	78.4	78.4	78.7	78.7	78.7	78.7	78.7	78.7
IV 2000	11.1	56.1	62.2	67.4	79.0	80.8	81.3	82.8	83.2	83.2	83.5	83.5	83.5	83.5	83.5	83.5
IV 1800	11.1	56.1	62.2	67.7	78.7	81.4	82.5	83.5	83.9	83.9	84.2	84.2	84.2	84.2	84.2	84.2
IV 1500	14.1	58.1	65.7	70.5	81.4	84.2	85.6	86.9	87.3	87.6	88.0	88.0	88.0	88.0	88.0	88.0
IV 1200	14.3	58.4	65.3	70.8	82.5	85.9	87.6	89.4	91.0	90.4	90.7	90.7	90.7	90.7	90.7	90.7
IV 1000	15.3	59.1	66.0	71.5	84.5	88.7	90.0	92.1	93.8	94.2	94.5	94.5	94.5	94.5	94.5	94.5
IV 900	15.0	59.1	66.0	71.5	84.5	88.0	90.4	92.4	94.2	94.5	94.9	94.9	94.9	94.9	94.9	94.9
IV 800	15.0	59.1	66.0	71.5	84.9	88.7	91.1	93.5	95.5	96.6	97.3	97.3	97.3	97.3	97.3	97.3
IV 700	15.0	59.1	66.0	71.5	84.9	88.7	91.1	93.5	95.9	96.9	97.6	97.6	97.6	97.6	97.6	97.6
IV 600	15.1	59.1	66.0	71.5	85.2	89.0	91.4	93.8	96.2	97.6	98.3	98.3	98.3	98.3	98.3	98.3
IV 500	15.0	59.1	66.0	71.5	85.7	89.0	92.1	94.9	97.3	98.6	99.3	99.7	99.7	99.7	99.7	99.7
IV 400	15.3	59.5	66.3	71.8	85.6	89.4	92.4	95.2	97.6	99.0	99.7	100.0	100.0	100.0	100.0	100.0
IV 300	15.3	59.5	66.3	71.8	85.6	89.4	92.4	95.2	97.6	99.0	99.7	100.0	100.0	100.0	100.0	100.0
IV 200	15.3	59.5	66.3	71.8	85.6	89.4	92.4	95.2	97.6	99.0	99.7	100.0	100.0	100.0	100.0	100.0
IV 100	15.3	59.5	66.3	71.8	85.6	89.4	92.4	95.2	97.6	99.0	99.7	100.0	100.0	100.0	100.0	100.0
IV 0	15.3	59.5	66.3	71.8	85.6	89.4	92.4	95.2	97.6	99.0	99.7	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 291

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT WHELEIGH

CEILING VERSUS VISIBILITY

STATION NAME: WHELEIGH STATION NUMBER: 75-72 YEARS: 1964 MONTH: 18 HOURS: 18

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0
≥ 20000	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 18000	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 16000	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 14000	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 12000	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 10000	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 9000	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 8000	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 7000	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 6000	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 5000	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 4500	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 4000	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 3500	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 3000	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 2500	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 2000	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 1800	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 1500	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 1200	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 1000	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 900	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 800	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 700	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 600	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 500	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 400	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 300	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 200	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 100	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
≥ 0	1.0	23.0	25.1	26.4	27.9	27.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2

TOTAL NUMBER OF OBSERVATIONS 257

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

DATE

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOUSE

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	9	8	7	6	5	4	3	2	1	1/2	1/4	1/8	1/16	1/32	0
NO CEILING	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 20000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
18000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
16000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
14000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
12000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
9000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
8000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

199

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

73-77

YEARS

JUN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

ALL

HOURS U.S.T.

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	7.7	11.4	13.4	13.1	14.4	14.7	15.1	15.2	15.2	15.3	15.3	15.3	15.3	15.3	15.3	15.4
≥ 20000	17.6	18.7	22.4	22.3	25.5	26.1	26.7	27.0	27.1	27.2	27.2	27.2	27.2	27.2	27.2	27.3
IV 18000	17.6	18.4	22.4	22.4	25.6	26.3	26.9	27.1	27.3	27.4	27.4	27.4	27.4	27.4	27.4	27.4
IV 16000	17.6	18.4	22.4	22.4	25.6	26.3	26.9	27.1	27.3	27.4	27.4	27.4	27.4	27.4	27.4	27.4
IV 14000	17.6	18.4	22.4	22.4	25.6	26.3	26.9	27.1	27.3	27.4	27.4	27.4	27.4	27.4	27.4	27.4
IV 12000	22.1	24.5	27.1	29.3	33.4	34.7	35.5	36.1	36.1	36.3	36.4	36.4	36.4	36.4	36.4	36.5
IV 10000	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 9000	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 8000	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 7000	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 6000	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 5000	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 4500	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 4000	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 3500	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 3000	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 2500	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 2000	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 1800	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 1500	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 1200	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 1000	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 900	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 800	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 700	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 600	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 500	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 400	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 300	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 200	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 100	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4
IV 0	22.1	24.5	31.7	34.6	39.6	41.3	42.1	42.8	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.4

TOTAL NUMBER OF OBSERVATIONS

2063

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE

STATION

STATION NAME

17-31

YEARS

JUL
1960

10
HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
≥ 20000	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 18000	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 16000	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 14000	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 12000	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 10000	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 9000	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 8000	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 7000	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 6000	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 5000	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 4500	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 4000	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 3500	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 3000	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 2500	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 2000	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 1800	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 1500	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 1200	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 1000	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 900	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 800	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 700	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 600	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 500	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 400	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 300	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 200	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 100	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 0	0.1	0.1	21.1	21.2	23.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4

TOTAL NUMBER OF OBSERVATIONS

176

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION NAME: JAS A. YEAR: 17-8 MONTH: JUL
PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)
HOURS: 03

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	¾	¾	≥ 0
NO CEILING	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
≥ 20000	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
18000	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
16000	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
14000	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
12000	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
10000	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
9000	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
8000	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
7000	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
6000	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
5000	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
4500	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
4000	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
3500	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
3000	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
2500	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
2000	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
1800	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
1500	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
1200	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
1000	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
900	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
800	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
700	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
600	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
500	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
400	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
300	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
200	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
100	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9
0	17.5	14.6	15.4	14.4	17.5	17.5	17.7	15.7	19.7	19.3	19.9	19.9	19.9	19.9	19.9	19.9

TOTAL NUMBER OF OBSERVATIONS 171

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION NAME: STATION NAME YEARS JUL
 MONTH: JUL
 HOURS: 15.7

PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ 0
NO CEILING	7.1	8.3	11.5	11.5	15.2	17.5	17.7	19.5	20.4	21.4	22.6	23.7	27.0	23.1	23.7	23.7
≥ 20000	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.1	32.1	32.1	32.4
≥ 18000	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 16000	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 14000	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 12000	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 10000	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 9000	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 8000	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 7000	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 6000	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 5000	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 4500	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 4000	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 3500	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 3000	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 2500	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 2000	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 1800	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 1500	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 1200	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 1000	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 900	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 800	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 700	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 600	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 500	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 400	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 300	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 200	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 100	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4
≥ 0	1.1	11.2	13.5	14.2	21.1	11.2	24.2	27.4	26.7	20.4	31.3	32.1	32.4	32.4	32.4	32.4

TOTAL NUMBER OF OBSERVATIONS: 226

UNPAID CEILING METERS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION NAME: 75-32 YEARS: JUL MONTH: 19 HOURS: 12.5

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 70000	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 18000	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 16000	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 14000	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 12000	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 10000	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 9000	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 8000	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 7000	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 6000	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 5000	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 4500	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 4000	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 3500	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 3000	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 2500	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 2000	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 1800	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 1500	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 1200	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 1000	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 900	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 800	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 700	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 600	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 500	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 400	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 300	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 200	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 100	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
≥ 0	11.4	12.5	13.5	17.7	18.0	19.4	20.1	20.1	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4

TOTAL NUMBER OF OBSERVATIONS 289

DIRNAVOCEANMET SMUS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

13-14

YEAR

JUL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING	1.0	14.5	16.2	16.6	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9
≥ 20000	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 18000	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 16000	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 14000	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 12000	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 10000	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 9000	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 8000	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 7000	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 6000	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 5000	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 4500	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 4000	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 3500	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 3000	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 2500	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 2000	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 1800	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 1500	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 1200	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 1000	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 900	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 800	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 700	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 600	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 500	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 400	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 300	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 200	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 100	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 0	23.1	25.2	26.5	30.1	30.1	30.1	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4

TOTAL NUMBER OF OBSERVATIONS 296

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHVILLE NC

CEILING VERSUS VISIBILITY

STATION

13-61, JAL-1

STATION NAME

73-42

YEARS

JUL
NORTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 20000	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 18000	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 16000	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 14000	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 12000	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 10000	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 9000	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 8000	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 7000	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 6000	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 5000	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 4500	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 4000	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 3500	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 3000	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 2500	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 2000	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 1800	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 1500	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 1200	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 1000	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 900	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 800	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 700	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 600	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 500	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 400	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 300	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 200	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 100	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
≥ 0	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9

TOTAL NUMBER OF OBSERVATIONS 293

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ANNEVILLE, MD

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

JUL
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)14
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 0
NO CEILING	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
≥ 20000	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 18000	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 16000	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 14000	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 12000	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 10000	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 9000	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 8000	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 7000	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 6000	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 5000	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 4500	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 4000	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 3500	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 3000	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 2500	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 2000	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 1800	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 1500	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 1200	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 1000	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 900	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 800	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 700	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 600	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 500	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 400	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 300	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 200	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 100	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 0	27.2	29.1	27.8	31.8	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1

TOTAL NUMBER OF OBSERVATIONS

299

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, WASHINGTON, D.C.

CEILING VERSUS VISIBILITY

STATION NAME: WASH DC STATION: WASH DC YEAR: 73-74 MONTH: JUL
 PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) DAY: 21

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING	2.0	23.7	27.7	24.4	17.8	18.5	22.7	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
≥ 20000	.1	1.5	3.5	11.2	34.6	35.6	36.6	32.0	32.0	33.0	38.0	38.0	38.0	38.0	38.0	38.0
IV 18000	.1	0.0	30.5	31.2	34.6	35.6	36.6	32.0	32.0	33.0	38.0	38.0	38.0	38.0	38.0	38.0
IV 16000	.1	1.5	30.5	31.2	34.6	35.6	36.6	34.0	32.0	38.0	30.0	38.0	30.0	38.0	38.0	38.0
IV 14000	.2	11.2	31.2	31.2	35.3	36.7	37.3	32.6	39.6	38.6	33.6	38.6	39.6	38.6	39.6	39.6
IV 12000	10.0	35.6	35.0	36.0	41.0	42.0	47.1	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
IV 10000	25.6	30.0	39.7	40.7	45.4	47.1	49.2	50.5	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
IV 9000	35.6	30.0	39.7	40.7	45.4	47.1	49.2	50.5	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
IV 8000	40.7	40.7	42.0	43.4	45.5	50.9	52.9	54.2	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
IV 7000	40.7	42.0	43.4	44.8	49.8	52.2	54.2	55.6	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
IV 6000	40.7	43.4	44.8	46.1	51.2	53.9	55.9	57.3	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
IV 5000	40.7	44.4	45.8	47.5	52.0	55.9	58.0	59.3	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
IV 4500	2.4	46.1	47.8	48.8	50.3	59.7	62.4	64.1	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
IV 4000	3.4	47.0	48.2	51.2	56.3	62.4	65.8	67.8	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
IV 3500	4.4	48.8	50.9	53.2	61.7	66.1	69.5	71.5	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
IV 3000	4.4	51.2	53.2	55.6	64.4	68.8	72.5	74.6	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
IV 2500	4.4	52.5	54.9	57.3	67.5	71.9	75.9	78.3	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
IV 2000	4.4	54.6	57.0	60.0	70.9	75.6	80.0	82.7	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
IV 1800	0.2	54.6	57.3	60.3	71.2	75.9	80.3	83.1	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
IV 1500	0.2	55.3	58.3	61.4	72.5	77.3	82.0	84.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IV 1200	0.2	55.6	58.6	61.7	73.2	78.0	82.7	85.8	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
IV 1000	1.2	55.9	59.0	62.4	74.6	80.3	85.8	89.2	91.9	92.2	92.5	92.5	92.5	92.5	92.5	92.5
IV 900	1.2	55.9	59.0	62.4	74.6	80.3	85.8	89.2	91.9	93.2	93.6	93.6	93.6	93.6	93.6	93.6
IV 800	1.2	55.9	59.0	62.4	74.6	80.3	85.8	89.2	91.9	93.2	93.6	93.6	93.6	93.6	93.6	93.6
IV 700	1.2	55.9	59.0	62.4	74.6	80.3	85.8	89.2	91.9	93.2	93.6	93.6	93.6	93.6	93.6	93.6
IV 600	1.2	55.9	59.0	62.4	74.6	80.3	85.8	89.2	91.9	93.2	93.6	93.6	93.6	93.6	93.6	93.6
IV 500	1.2	55.9	59.0	62.4	74.6	80.3	85.8	89.2	91.9	93.2	93.6	93.6	93.6	93.6	93.6	93.6
IV 400	1.2	55.9	59.0	62.4	74.6	80.3	85.8	89.2	91.9	93.2	93.6	93.6	93.6	93.6	93.6	93.6
IV 300	1.2	55.9	59.0	62.4	74.6	80.3	85.8	89.2	91.9	93.2	93.6	93.6	93.6	93.6	93.6	93.6
IV 200	1.2	55.9	59.0	62.4	74.6	80.3	85.8	89.2	91.9	93.2	93.6	93.6	93.6	93.6	93.6	93.6
IV 100	1.2	55.9	59.0	62.4	74.6	80.3	85.8	89.2	91.9	93.2	93.6	93.6	93.6	93.6	93.6	93.6
IV 0	1.2	55.9	59.0	62.4	74.6	80.3	85.8	89.2	91.9	93.2	93.6	93.6	93.6	93.6	93.6	93.6

TOTAL NUMBER OF OBSERVATIONS 295

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHKEWILL, N.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

JUL
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)ALL
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 3/8	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING	16.7	17.6	17.6	16.9	21.5	16.7	22.5	23.1	23.3	23.4	23.7	23.7	23.7	23.7	23.7	23.7
≥ 20000	7.4	14.1	25.2	27.1	31.3	31.2	32.7	33.6	33.9	34.2	34.4	34.5	34.5	34.5	34.5	34.6
≥ 18000	2.4	14.1	25.2	27.1	31.3	31.2	32.7	33.6	33.9	34.2	34.5	34.5	34.5	34.5	34.5	34.6
≥ 16000	2.4	14.1	25.2	27.1	31.3	31.2	32.7	33.6	33.9	34.2	34.5	34.5	34.5	34.5	34.5	34.6
≥ 14000	2.4	14.1	25.2	27.1	31.3	31.2	32.7	33.6	33.9	34.2	34.5	34.5	34.5	34.5	34.5	34.6
≥ 12000	2.4	14.1	25.2	27.1	31.3	31.2	32.7	33.6	33.9	34.2	34.5	34.5	34.5	34.5	34.5	34.6
≥ 10000	2.4	14.1	25.2	27.1	31.3	31.2	32.7	33.6	33.9	34.2	34.5	34.5	34.5	34.5	34.5	34.6
≥ 9000	2.4	14.1	25.2	27.1	31.3	31.2	32.7	33.6	33.9	34.2	34.5	34.5	34.5	34.5	34.5	34.6
≥ 8000	1.2	33.3	34.6	35.8	45.7	47.1	48.6	49.7	50.2	50.6	51.7	51.1	51.1	51.1	51.1	51.2
≥ 7000	1.4	33.3	34.6	35.9	46.1	47.3	48.9	49.9	50.6	51.9	51.3	51.4	51.4	51.4	51.4	51.5
≥ 6000	1.1	34.5	37.5	37.8	47.0	48.3	49.8	51.0	51.5	52.0	52.3	52.4	52.4	52.4	52.4	52.5
≥ 5000	3.2	35.1	37.9	41.4	49.1	50.5	52.0	53.3	53.9	54.3	54.7	54.8	54.8	54.8	54.8	54.9
≥ 4500	34.5	37.2	40.5	43.3	51.0	53.7	55.4	56.9	57.5	58.0	58.4	58.5	58.5	58.5	58.5	58.6
≥ 4000	1.1	38.7	42.1	45.3	54.6	56.6	58.3	61.5	61.7	61.3	62.3	62.4	62.4	62.4	62.4	62.5
≥ 3500	1.6	40.1	43.5	47.1	57.3	59.7	61.9	63.8	64.7	65.4	65.9	66.0	66.0	66.0	66.0	66.1
≥ 3000	1.5	42.1	45.9	49.7	60.8	63.6	66.3	68.5	69.7	71.5	71.0	71.2	71.2	71.2	71.2	71.3
≥ 2500	1.0	43.7	47.9	51.9	63.7	66.8	69.9	72.1	73.5	74.3	74.9	75.1	75.1	75.1	75.1	75.2
≥ 2000	4.1	45.9	50.4	55.0	68.2	71.6	75.2	77.6	79.2	80.1	80.7	81.3	81.3	81.3	81.3	81.4
≥ 1800	2.1	46.1	50.6	55.2	68.5	71.9	75.5	77.9	79.5	80.4	81.0	81.3	81.3	81.3	81.3	81.4
≥ 1500	3.1	47.4	52.1	57.1	71.4	74.9	78.8	81.5	83.4	84.4	85.0	85.3	85.3	85.3	85.3	85.4
≥ 1200	4.7	48.0	52.7	57.6	72.6	76.3	80.4	83.5	85.5	86.6	87.3	87.5	87.6	87.6	87.6	87.7
≥ 1000	44.1	48.4	53.1	58.2	73.7	77.8	82.6	86.2	88.7	90.2	91.2	91.4	91.4	91.4	91.4	91.5
≥ 900	44.2	48.5	53.3	58.4	74.0	78.1	82.8	86.7	89.3	90.8	91.9	92.1	92.2	92.2	92.2	92.3
≥ 800	44.4	48.9	53.7	58.9	74.7	78.9	83.9	88.1	91.3	93.0	94.4	94.8	94.9	94.9	94.9	94.9
≥ 700	44.5	49.1	54.0	59.2	75.1	79.6	84.4	89.0	92.4	94.2	95.7	96.0	96.2	96.2	96.3	96.4
≥ 600	44.5	49.1	54.0	59.2	75.1	79.7	84.9	89.3	92.7	94.7	96.4	96.8	97.0	97.0	97.1	97.2
≥ 500	44.6	49.2	54.1	59.3	75.4	80.1	85.4	89.9	93.4	95.6	97.4	98.0	98.2	98.2	98.3	98.4
≥ 400	44.6	49.2	54.1	59.3	75.5	80.2	85.7	90.4	93.9	96.3	98.2	98.7	99.0	99.2	99.2	99.3
≥ 300	44.7	49.3	54.2	59.4	75.6	80.3	85.8	90.5	94.0	96.5	98.4	99.0	99.4	99.7	99.8	99.9
≥ 200	44.7	49.3	54.2	59.4	75.6	80.3	85.8	90.5	94.0	96.5	98.4	99.0	99.4	99.7	99.8	100.0
≥ 100	44.7	49.3	54.2	59.4	75.6	80.3	85.8	90.5	94.0	96.5	98.4	99.0	99.4	99.7	99.8	100.0
≥ 0	44.7	49.3	54.2	59.4	75.6	80.3	85.8	90.5	94.0	96.5	98.4	99.0	99.4	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS

2115

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHVILLE, NC

CEILING VERSUS VISIBILITY

STATION 177-71 STATION NAME YEARS AUG MONTH 03

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING	2.7	23.5	37.1	34.3	32.5	40.4	40.4	42.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
≥ 20000	2.7	23.5	36.3	37.4	41.5	42.7	42.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
IV 18000	2.7	23.5	34.3	37.4	41.5	42.7	42.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
IV 16000	2.7	23.5	34.3	37.4	41.5	42.7	42.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
IV 14000	2.7	23.5	36.3	37.4	42.1	43.3	43.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
IV 12000	2.7	23.5	42.1	44.4	48.5	49.7	49.7	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
IV 10000	2.7	43.9	44.4	50.3	57.7	59.1	60.2	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
IV 9000	2.7	44.4	44.4	50.9	57.5	59.7	60.2	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
IV 8000	48.7	48.7	57.1	58.0	63.2	64.8	66.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
IV 7000	44.4	44.4	53.2	56.1	64.3	66.1	67.8	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
IV 6000	44.4	48.5	53.2	56.1	64.3	66.7	68.4	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
IV 5000	44.4	48.5	54.4	57.3	65.5	67.8	69.6	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
IV 4500	44.4	49.1	56.1	58.1	67.3	70.2	71.9	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 4000	44.4	49.7	56.7	59.7	67.8	70.8	72.5	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
IV 3500	44.4	50.1	58.1	62.0	71.4	74.9	77.2	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
IV 3000	44.4	50.6	58.7	63.7	73.1	76.6	79.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
IV 2500	44.4	51.1	60.6	64.9	75.4	79.0	81.3	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
IV 2000	44.4	53.3	61.4	66.1	77.2	80.7	83.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
IV 1800	44.4	53.3	61.4	66.1	77.2	80.7	83.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
IV 1500	44.4	53.3	61.4	66.1	77.2	80.7	83.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
IV 1200	44.4	54.4	63.2	67.8	81.3	85.4	88.9	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
IV 1000	44.4	54.4	63.2	67.8	81.3	85.4	88.9	92.4	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
IV 900	44.4	54.4	63.2	67.8	81.3	85.4	88.9	92.4	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
IV 800	44.4	55.0	63.7	69.6	83.0	87.1	91.2	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
IV 700	44.4	55.0	63.7	69.6	83.0	87.1	91.2	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
IV 600	44.4	55.6	64.3	70.2	83.6	88.3	92.4	95.9	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 500	44.4	55.6	64.3	70.2	84.2	88.9	93.0	96.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 400	44.4	55.6	64.3	70.2	84.2	88.9	93.0	96.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IV 300	44.4	55.6	64.3	70.2	84.8	89.5	93.6	97.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	44.4	55.6	64.3	70.2	84.8	89.5	93.6	97.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	44.4	55.6	64.3	70.2	84.8	89.5	93.6	97.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	44.4	55.6	64.3	70.2	84.8	89.5	93.6	97.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 171

DIRNAVCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT AND VESSEL NO.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

17-8

YEARS

AUT
NORTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

03
HOURS 12.5

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	2.0	2.0	24.7	27.7	31.2	31.2	31.2	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
≥ 20000	2.0	25.3	27.7	31.2	34.7	34.7	35.3	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
18000	4.0	25.3	27.7	31.2	34.7	34.7	35.3	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
16000	4.0	25.3	27.7	31.2	34.7	34.7	35.3	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
14000	4.0	25.3	27.7	31.2	34.7	34.7	35.3	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
12000	1.0	30.0	32.4	36.5	40.0	40.0	40.6	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
10000	1.0	32.4	35.7	40.0	45.0	45.9	47.7	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
9000	1.0	33.5	36.5	40.6	46.5	46.5	48.2	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
8000	1.0	37.1	40.0	44.3	51.2	51.2	54.1	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
7000	1.0	37.7	40.6	44.9	51.8	52.4	54.7	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
6000	1.0	38.0	41.8	47.1	52.9	53.5	55.9	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
5000	1.0	39.4	42.4	47.7	54.1	54.7	57.1	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
4500	1.0	41.0	42.9	48.2	55.3	55.9	58.2	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
4000	1.0	42.0	45.9	52.9	60.0	61.2	63.5	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
3500	4.0	43.5	46.5	53.5	61.2	62.9	65.3	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
3000	4.0	46.5	51.2	58.2	67.1	69.4	71.8	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
2500	4.0	47.1	52.4	60.6	70.0	72.4	74.7	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
2000	4.0	47.7	53.5	61.8	71.2	74.1	77.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
1800	4.0	47.7	53.5	61.8	71.2	74.1	77.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
1500	4.0	48.2	54.7	63.5	73.5	77.1	81.2	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
1200	4.0	48.2	54.7	64.1	74.7	78.2	82.4	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
1000	4.0	51.0	56.5	67.1	78.2	81.8	85.9	92.4	92.4	92.9	92.9	92.9	92.9	92.9	92.9	92.9
900	4.0	50.0	56.5	67.1	78.2	81.8	85.9	92.4	92.4	92.9	92.9	92.9	92.9	92.9	92.9	92.9
800	4.0	50.6	57.1	67.7	78.8	83.5	88.2	94.7	94.7	95.3	95.9	95.9	95.9	95.9	95.9	95.9
700	4.0	50.6	57.1	67.7	79.4	84.1	88.8	95.3	95.3	95.9	96.5	96.5	96.5	96.5	96.5	96.5
600	4.0	50.6	57.1	68.2	80.0	84.7	89.4	95.9	96.5	97.1	97.7	97.7	97.7	97.7	97.7	97.7
500	4.0	50.6	57.1	68.2	80.6	85.3	90.0	96.5	97.1	97.7	98.8	98.8	98.8	98.8	98.8	98.8
400	4.0	50.6	57.1	68.2	80.6	85.3	90.0	96.5	97.1	97.7	98.8	98.8	98.8	98.8	98.8	98.8
300	4.0	51.6	57.1	68.2	81.2	85.9	90.6	97.1	97.7	98.2	99.4	99.4	100.0	100.0	100.0	100.0
200	4.0	51.6	57.1	68.2	81.2	85.9	90.6	97.1	97.7	98.2	99.4	99.4	100.0	100.0	100.0	100.0
100	4.0	50.6	57.1	68.2	81.2	85.9	90.6	97.1	97.7	98.2	99.4	99.4	100.0	100.0	100.0	100.0
0	4.0	50.6	57.1	68.2	81.2	85.9	90.6	97.1	97.7	98.2	99.4	99.4	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 170

DIRNAVCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ARLVILLE, NC

CEILING VERSUS VISIBILITY

STATION NAME: 13-52 YEARS: AUG MONTH: 75 HOURS: 15

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 20000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 18000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 16000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 14000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 12000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 10000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 9000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 8000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 7000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 243

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 20000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16000	1.2	4.1	24.4	27.3	37.1	37.8	43.3	41.7	42.1	42.4	42.4	42.4	42.4	42.4	42.4	42.4
14000	1.0	25.1	28.2	31.0	39.6	40.6	43.1	44.5	44.7	45.2	45.2	45.2	45.2	45.2	45.2	45.2
12000	0.0	27.2	28.6	32.5	42.4	44.2	47.1	46.4	46.9	49.1	49.1	49.1	49.1	49.1	49.1	49.1
10000	0.0	31.1	32.9	37.5	45.1	49.5	52.3	54.1	54.4	54.9	54.9	54.8	54.8	54.8	54.8	54.8
9000	0.0	31.5	33.2	37.9	46.4	49.8	52.7	54.4	54.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1
8000	0.0	33.3	35.7	40.5	51.7	53.7	56.5	56.3	58.7	59.0	59.0	59.0	59.0	59.0	59.0	59.0
7000	0.0	33.6	35.7	41.6	51.9	53.7	56.5	56.3	58.7	59.0	59.0	59.0	59.0	59.0	59.0	59.0
6000	0.0	33.5	35.7	41.6	52.7	54.8	57.6	59.4	59.7	60.1	60.1	60.1	60.1	60.1	60.1	60.1
5000	0.0	35.5	39.5	43.8	55.5	57.6	60.4	62.2	62.5	62.9	62.9	62.9	62.9	62.9	62.9	62.9
4500	0.4	36.1	37.2	44.2	57.2	59.7	62.5	65.0	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7
4000	1.0	36.4	39.6	45.6	58.7	61.1	64.7	66.8	67.1	67.5	67.5	67.5	67.5	67.5	67.5	67.5
3500	1.1	37.5	40.6	46.6	60.1	62.7	66.1	68.9	69.3	69.6	69.6	69.6	69.6	69.6	69.6	69.6
3000	2.0	38.9	42.1	48.1	61.5	64.7	68.2	71.0	71.4	71.7	71.7	71.7	71.7	71.7	71.7	71.7
2500	3.0	40.3	43.8	50.2	64.3	67.5	71.4	74.2	74.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
2000	5.0	42.4	44.6	53.0	67.6	72.8	77.0	79.9	80.2	80.6	80.9	80.9	80.9	80.9	80.9	80.9
1800	15.0	42.4	44.6	53.0	67.6	72.8	77.0	79.9	80.2	80.6	80.9	80.9	80.9	80.9	80.9	80.9
1500	0.0	45.6	51.2	57.2	75.3	78.8	83.4	86.2	86.9	87.3	87.6	87.6	87.6	87.6	87.6	87.6
1200	0.0	47.7	52.3	59.4	77.7	81.3	86.6	89.8	90.5	91.2	91.9	91.9	91.9	91.9	91.9	91.9
1000	0.0	48.4	53.1	60.1	79.5	83.1	89.1	92.6	93.3	94.0	94.7	94.7	94.7	94.7	94.7	94.7
900	0.0	48.4	53.1	60.1	79.5	83.1	89.1	92.6	93.3	94.0	94.7	94.7	94.7	94.7	94.7	94.7
800	0.0	48.8	53.7	61.1	80.9	84.5	90.8	94.4	95.1	95.8	96.5	96.5	96.5	96.5	96.5	96.5
700	0.0	49.1	54.1	61.5	81.3	84.8	91.5	95.1	95.8	96.5	97.2	97.2	97.2	97.2	97.2	97.2
600	0.0	49.5	54.4	61.8	81.6	85.5	92.2	95.8	96.5	97.2	97.9	97.9	97.9	97.9	97.9	97.9
500	0.0	50.5	55.4	63.3	83.0	86.9	93.6	97.2	97.9	98.6	99.3	99.3	99.3	99.3	99.3	99.3
400	0.0	51.9	55.9	63.3	83.0	86.9	93.6	97.2	97.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0
300	0.0	52.9	56.4	63.3	83.0	86.9	93.6	97.2	97.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0
200	0.0	53.9	56.8	63.3	83.0	86.9	93.6	97.2	97.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0
100	0.0	53.9	56.8	63.3	83.0	86.9	93.6	97.2	97.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0
0	0.0	53.9	56.8	63.3	83.0	86.9	93.6	97.2	97.9	98.9	99.7	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 283

DIRNAVOCEANMET SMOS

NATIONAL WEATHER SERVICE DEPARTMENT AIRPORT, WILMINGTON, DE

CEILING VERSUS VISIBILITY

STATION NAME: WILMINGTON, DE STATION NUMBER: 73-60 YEARS: 40 MONTH: 12 HOURS: 12

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
≥ 20000	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 18000	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 16000	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 14000	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 12000	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 10000	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 9000	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 8000	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 7000	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 6000	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 5000	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 4500	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 4000	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 3500	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 3000	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 2500	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 2000	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 1800	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 1500	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 1200	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 1000	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 900	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 800	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 700	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 600	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 500	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 400	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 300	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 200	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 100	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
IV 0	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4

TOTAL NUMBER OF OBSERVATIONS 303

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE STATION METEOROLOGICAL DATA

STATION

STATION NAME

YEAR

AUT
NORTH

15
HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 3	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 3/4	≥ 3/4	≥ 3/4	≥ 3/4	≥ 0
NO CEILING	1.7	24.4	25.4	7.1	32.9	32.1	33.1	73.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
≥ 20000	2.4	36.1	37.5	41.5	45.2	45.2	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
IV 18000	1.1	36.5	37.4	41.8	45.5	45.5	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
IV 16000	2.1	36.5	37.8	41.8	45.5	45.5	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
IV 14000	15.1	39.1	41.1	44.3	48.8	47.2	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
IV 12000	16.1	40.6	42.5	46.5	51.2	51.5	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
IV 10000	10.1	44.5	46.8	50.8	55.2	56.2	56.3	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
IV 9000	10.1	44.1	47.2	51.2	56.2	56.5	56.7	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
IV 8000	1.1	46.2	48.8	52.8	56.2	58.5	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
IV 7000	11.1	46.5	49.3	53.5	58.9	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
IV 6000	10.5	47.2	51.2	54.5	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
IV 5000	43.1	48.5	51.5	56.2	62.7	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
IV 4500	44.1	49.3	52.5	57.5	64.2	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
IV 4000	45.1	50.5	53.5	58.9	65.6	65.9	67.2	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 3500	46.2	51.2	54.2	59.5	66.2	66.6	67.9	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
IV 3000	47.2	52.5	55.2	64.2	72.2	72.6	74.3	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 2500	48.1	53.5	56.2	65.6	76.3	76.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
IV 2000	49.1	54.2	57.2	66.2	77.3	77.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
IV 1800	50.1	55.2	58.2	67.2	78.6	78.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
IV 1600	51.1	56.2	59.2	68.2	79.3	79.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
IV 1400	52.1	57.2	60.2	69.2	80.6	80.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
IV 1200	53.1	58.2	61.2	70.2	81.3	81.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 1000	54.1	59.2	62.2	71.2	82.6	82.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
IV 900	55.1	60.2	63.2	72.2	83.3	83.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
IV 800	56.1	61.2	64.2	73.2	84.6	84.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
IV 700	57.1	62.2	65.2	74.2	85.3	85.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
IV 600	58.1	63.2	66.2	75.2	86.6	86.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
IV 500	59.1	64.2	67.2	76.2	87.3	87.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 400	60.1	65.2	68.2	77.2	88.6	88.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
IV 300	61.1	66.2	69.2	78.2	89.3	89.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
IV 200	62.1	67.2	70.2	79.2	90.6	90.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
IV 100	63.1	68.2	71.2	80.2	91.3	91.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
IV 0	64.1	69.2	72.2	81.2	92.6	92.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6

TOTAL NUMBER OF OBSERVATIONS 299

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NATIONAL WEATHER SERVICE, METEOROLOGICAL SERVICE

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1st
HOURS 1-24

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	1.7	2.3	2.7	27.5	31.0	31.3	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
≥ 20000	1.7	24.3	37.1	4.1	44.4	45.1	45.5	4.0	45.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3
IV 18000	1.7	24.3	37.1	4.1	44.4	45.1	45.5	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
IV 16000	1.7	24.3	37.1	4.1	44.4	45.1	45.5	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
IV 14000	1.7	24.3	37.1	41.3	46.5	47.5	47.8	49.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
IV 12000	1.7	24.3	37.1	46.1	51.2	52.5	53.2	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
IV 10000	1.7	47.1	47.5	52.9	59.6	60.9	61.6	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
IV 9000	1.7	45.3	46.2	51.2	58.9	61.3	62.0	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
IV 8000	4.4	4.7	5.5	67.2	63.6	65.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 7000	4.4	4.7	5.5	66.6	64.3	65.3	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 6000	4.4	4.7	5.5	66.6	64.3	65.3	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 5000	4.4	4.7	5.5	67.6	65.7	67.1	68.4	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 4500	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 4000	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 3500	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 3000	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 2500	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 2000	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 1800	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 1600	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 1400	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 1200	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 1000	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 900	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 800	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 700	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 600	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 500	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 400	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 300	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 200	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 100	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
IV 0	4.4	4.7	5.5	68.6	67.7	69.7	71.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7

TOTAL NUMBER OF OBSERVATIONS

207

DHNAVOCEANMET SMOS

NAME, WEATHER, ETC. (SEE INSTRUCTIONS)

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING	3.3	2.5	2.1	1.7	1.3	1.0	.8	.6	.5	.4	.3	.2	.1	.1	.1	.1
≥ 20000	1.1	2.2	3.0	3.2	4.2	4.1	4.3	4.2	4.4	4.2	4.4	4.2	4.4	4.2	4.4	4.2
IV 18000	1.1	2.2	3.0	3.2	4.2	4.1	4.3	4.2	4.4	4.2	4.4	4.2	4.4	4.2	4.4	4.2
IV 16000	1.2	2.5	3.2	3.4	4.2	4.3	4.3	4.4	4.5	4.4	4.5	4.4	4.5	4.4	4.5	4.4
IV 14000	1.3	2.7	3.7	3.9	4.3	4.4	4.4	4.5	4.6	4.5	4.6	4.5	4.6	4.5	4.6	4.5
IV 12000	1.4	2.8	4.0	4.2	4.6	4.8	4.8	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
IV 10000	1.1	4.0	4.1	4.1	5.0	5.6	5.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
IV 9000	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
IV 8000	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
IV 7000	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
IV 6000	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
IV 5000	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
IV 4500	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
IV 4000	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
≥ 3500	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
≥ 3000	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
≥ 2500	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
≥ 2000	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
≥ 1800	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
≥ 1500	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
≥ 1200	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
≥ 1000	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
IV 900	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
IV 800	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
IV 700	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
IV 600	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
IV 500	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
IV 400	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
IV 300	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
IV 200	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
IV 100	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
IV 0	1.1	4.4	4.2	4.2	5.6	5.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9

TOTAL NUMBER OF OBSERVATIONS 200

DIRT/AVOCEANMET 5005

NAVAL WEATHER SERVICE STATION MET AIRFIELD NO

CEILING VERSUS VISIBILITY

STATION

1, JAN 41

STATION NAME

73-52

YEARS

AUG
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)ALL
HOURS 1-24

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ 0
NO CEILING	1.1	21.1	27.1	25.2	29.5	30.1	30.9	31.4	31.6	31.7	31.0	32.1	32.0	32.1	32.7	32.7
≥ 20000	0.0	16.9	37.2	33.7	32.0	29.8	40.7	41.7	41.9	42.2	42.4	42.4	42.4	42.4	42.4	42.4
≥ 18000	0.0	19.1	31.0	33.2	31.2	39.9	40.8	41.8	42.1	42.3	42.5	42.6	42.6	42.6	42.6	42.6
≥ 16000	0.0	29.1	31.1	33.2	39.3	40.0	40.2	41.9	42.2	42.4	42.6	42.7	42.7	42.7	42.7	42.7
≥ 14000	0.0	37.4	37.5	35.4	41.1	41.9	42.9	44.3	44.2	44.5	44.7	44.7	44.7	44.7	44.7	44.7
≥ 12000	0.0	33.4	35.3	39.1	45.4	46.4	47.5	48.7	48.9	49.2	49.4	49.5	49.5	49.5	49.5	49.5
≥ 10000	0.4	37.4	47.4	43.9	51.2	52.6	53.3	55.2	55.5	55.8	56.0	56.1	56.1	56.1	56.1	56.1
≥ 9000	16.1	37.8	40.8	44.2	51.7	53.1	54.3	55.7	55.9	56.3	56.5	56.6	56.6	56.6	56.6	56.6
≥ 8000	17.2	40.5	43.9	47.7	55.9	57.4	59.2	60.5	60.9	61.3	61.5	61.6	61.6	61.6	61.6	61.6
≥ 7000	21.5	40.8	44.3	48.1	55.3	57.8	59.5	61.1	61.3	61.7	62.1	62.1	62.1	62.1	62.1	62.1
≥ 6000	7.1	41.3	44.7	48.7	57.1	58.6	60.4	62.0	62.3	62.7	62.9	63.0	63.0	63.0	63.0	63.0
≥ 5000	11.2	42.3	45.9	50.1	59.1	60.7	62.6	64.1	64.5	64.9	65.1	65.2	65.2	65.2	65.2	65.2
≥ 4500	14.6	43.2	47.1	51.5	61.0	62.9	64.7	66.5	66.9	67.2	67.5	67.6	67.6	67.6	67.6	67.6
≥ 4000	16.7	44.5	48.4	53.0	63.1	65.7	67.1	69.1	69.5	69.9	70.2	70.3	70.3	70.3	70.3	70.3
≥ 3500	41.1	45.7	47.7	54.4	65.0	67.2	69.4	71.6	72.7	72.4	72.6	72.7	72.7	72.7	72.7	72.7
≥ 3000	44.1	47.2	52.6	57.6	68.9	71.3	73.8	76.1	76.5	76.9	77.1	77.2	77.2	77.2	77.2	77.2
≥ 2500	41.5	51.0	54.4	58.9	71.9	74.3	77.0	79.4	79.8	80.2	80.5	80.6	80.6	80.6	80.6	80.6
≥ 2000	41.2	51.3	56.6	62.4	75.6	78.2	81.3	83.7	84.2	84.7	85.0	85.1	85.1	85.1	85.1	85.1
≥ 1800	41.2	51.5	56.7	62.4	75.7	78.4	81.5	83.9	84.4	84.9	85.2	85.3	85.3	85.3	85.3	85.3
≥ 1500	41.2	53.3	59.9	64.8	73.9	72.1	85.5	88.1	88.9	89.5	89.8	89.9	89.9	89.9	89.9	89.9
≥ 1200	41.3	54.5	57.4	68.1	81.2	84.4	88.2	91.1	91.8	92.5	92.9	93.0	93.0	93.0	93.0	93.0
≥ 1000	41.8	55.0	62.5	66.9	82.4	85.6	89.7	92.7	93.6	94.5	94.9	95.1	95.1	95.1	95.1	95.1
≥ 900	41.7	55.0	60.5	66.7	82.4	85.6	89.7	92.7	93.6	94.5	94.9	95.1	95.1	95.1	95.1	95.1
≥ 800	41.0	55.7	63.9	67.7	83.3	86.7	90.9	94.0	95.1	96.0	96.6	96.7	96.7	96.7	96.7	96.7
≥ 700	41.0	55.4	61.1	67.8	83.6	87.0	91.4	94.5	95.6	96.5	97.1	97.3	97.3	97.3	97.3	97.3
≥ 600	41.1	55.5	61.2	68.1	84.0	87.5	92.0	95.2	96.6	97.5	98.2	98.3	98.3	98.3	98.3	98.3
≥ 500	41.3	55.7	61.4	68.3	84.4	87.9	92.6	95.9	97.4	98.4	99.1	99.2	99.3	99.3	99.3	99.3
≥ 400	41.4	55.7	61.5	68.5	84.6	88.1	92.8	96.1	97.5	98.7	99.4	99.6	99.6	99.6	99.6	99.6
≥ 300	41.4	55.9	61.5	68.5	84.7	88.2	92.9	96.4	98.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0
≥ 200	41.4	55.9	61.5	68.5	84.7	88.2	92.9	96.4	98.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0
≥ 100	41.4	55.9	61.5	68.5	84.7	88.2	92.9	96.4	98.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0
≥ 0	41.4	55.9	61.5	68.5	84.7	88.2	92.9	96.4	98.0	99.0	99.7	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2108

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

17-8

YEARS

SEP
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)10
HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8
NO CEILING	0	21.5	21.9	21.9	26.0	16.0	21.5	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
≥ 20000	4.3	25.4	25.4	26.0	30.2	30.2	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
≥ 18000	4.3	25.4	25.4	26.0	30.2	30.2	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
≥ 16000	4.3	25.4	25.4	26.0	30.2	30.2	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
≥ 14000	4.3	25.4	25.4	26.0	30.2	30.2	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
≥ 12000	1.4	32.5	34.0	34.0	40.2	40.2	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
≥ 10000	2.4	41.4	43.8	43.8	49.1	49.1	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 9000	4.3	42.6	45.0	45.0	50.3	50.3	51.5	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
≥ 8000	4.3	46.3	49.7	49.7	55.6	55.6	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 7000	4.3	46.3	49.7	49.7	55.6	55.6	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 6000	4.3	47.3	51.3	51.3	56.2	56.8	58.0	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
≥ 5000	4.3	48.5	51.5	51.5	57.4	58.6	59.8	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
≥ 4500	4.3	51.3	55.0	55.0	62.7	63.9	65.1	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 4000	33.2	55.6	61.0	62.1	71.0	72.2	73.4	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 3500	4.4	56.2	62.1	63.9	74.6	75.7	76.9	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
≥ 3000	5.6	57.4	63.9	65.1	76.9	78.1	79.3	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 2500	5.6	57.4	63.9	65.7	77.5	79.3	80.5	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 2000	5.6	58.0	65.1	66.9	79.3	81.1	82.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 1800	5.6	58.0	65.1	66.9	79.3	81.1	82.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
≥ 1500	5.6	58.6	66.3	68.1	82.3	84.6	85.8	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
≥ 1200	5.6	58.6	66.3	68.6	84.6	87.0	89.9	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1000	5.6	59.2	66.9	69.8	87.0	89.4	92.9	95.9	97.0	97.6	98.8	98.8	98.8	98.8	98.8
≥ 900	5.6	59.2	66.9	69.8	87.0	89.4	92.9	95.9	97.0	97.6	98.8	98.8	98.8	98.8	98.8
≥ 800	5.6	59.8	67.5	70.4	87.6	89.9	93.5	96.5	97.6	98.2	99.4	99.4	99.4	99.4	99.4
≥ 700	5.6	59.8	67.5	70.4	87.6	89.9	93.5	96.5	97.6	98.2	99.4	99.4	99.4	99.4	99.4
≥ 600	5.6	59.8	67.5	70.4	88.2	90.5	94.1	97.0	98.2	98.8	100.0	100.0	100.0	100.0	100.0
≥ 500	5.6	59.8	67.5	70.4	88.2	90.5	94.1	97.0	98.2	98.8	100.0	100.0	100.0	100.0	100.0
≥ 400	5.6	59.8	67.5	70.4	88.2	90.5	94.1	97.0	98.2	98.8	100.0	100.0	100.0	100.0	100.0
≥ 300	5.6	59.8	67.5	70.4	88.2	90.5	94.1	97.0	98.2	98.8	100.0	100.0	100.0	100.0	100.0
≥ 200	5.6	59.8	67.5	70.4	88.2	90.5	94.1	97.0	98.2	98.8	100.0	100.0	100.0	100.0	100.0
≥ 100	5.6	59.8	67.5	70.4	88.2	90.5	94.1	97.0	98.2	98.8	100.0	100.0	100.0	100.0	100.0
≥ 0	5.6	59.8	67.5	70.4	88.2	90.5	94.1	97.0	98.2	98.8	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

169

DIRNAVOCLANMET SMOS

NAVY WEATHER SERVICE DETACHMENT ASHESVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

77-82

YEARS

SEP

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

03

HOURS

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	¾	≥ 5/16	≥ 0
NO CEILING	1.0	1.0	24.2	26.1	29.1	29.1	29.1	29.7	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
≥ 20000	1.0	1.0	25.5	26.5	31.5	31.5	31.5	32.1	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
IV 18000	1.0	23.0	25.5	26.5	31.5	31.5	31.5	32.1	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
IV 16000	1.0	23.0	25.5	26.5	31.5	31.5	31.5	32.1	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
IV 14000	1.0	23.0	25.5	26.5	32.1	32.1	32.1	32.7	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
IV 12000	1.0	26.6	30.9	33.9	38.2	38.2	38.2	38.8	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
IV 10000	1.0	37.0	42.4	45.5	47.7	47.7	49.7	50.3	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
IV 9000	1.0	38.8	44.2	47.3	51.5	51.5	51.5	52.1	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
IV 8000	1.0	42.4	47.7	52.1	56.4	56.4	56.4	57.0	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
IV 7000	41.0	43.6	47.1	53.9	58.8	58.8	58.8	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
IV 6000	2.4	44.2	47.7	54.6	59.4	59.4	59.4	61.0	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
IV 5000	43.0	44.8	50.3	55.2	61.2	61.2	61.2	61.8	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 4500	44.0	45.7	52.1	57.6	64.9	64.9	64.9	66.1	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IV 4000	1.3	52.7	60.0	63.5	77.0	77.6	77.6	79.8	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
IV 3500	1.7	52.7	60.0	63.5	77.0	77.6	77.6	78.8	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
IV 3000	2.1	55.2	63.5	71.5	81.2	81.8	82.4	83.0	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
IV 2500	2.1	55.2	64.2	73.3	83.0	84.2	84.9	86.1	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
IV 2000	3.3	56.4	65.5	74.6	85.5	86.7	87.3	88.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 1800	3.3	56.4	65.5	74.6	85.5	86.7	87.3	89.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 1500	3.3	56.4	65.5	74.6	86.1	88.5	89.1	90.9	91.5	91.5	92.1	92.1	92.1	92.1	92.1	92.1
IV 1200	3.3	56.4	65.5	75.2	87.3	90.3	90.9	92.7	93.9	93.9	95.2	95.2	95.2	95.2	95.2	95.2
IV 1000	3.3	56.4	65.5	75.2	87.3	90.3	90.9	93.9	95.8	95.8	97.0	97.0	97.0	97.0	97.0	97.0
IV 900	3.3	56.4	65.5	75.2	87.3	90.3	90.9	93.9	95.8	95.8	97.0	97.0	97.0	97.0	97.0	97.0
IV 800	3.3	56.4	66.1	75.8	88.5	91.5	92.1	95.2	97.0	97.0	98.2	98.2	98.2	98.2	98.2	98.2
IV 700	3.3	56.4	66.1	75.8	88.5	91.5	92.1	95.2	97.6	97.6	98.8	98.8	98.8	98.8	98.8	98.8
IV 600	3.3	56.4	66.7	76.4	89.1	92.1	92.7	95.8	98.2	98.2	99.4	99.4	99.4	99.4	99.4	99.4
IV 500	3.3	56.4	66.7	76.4	89.1	92.1	92.7	95.8	98.2	98.2	99.4	99.4	99.4	99.4	99.4	99.4
IV 400	3.3	56.4	66.7	76.4	89.1	92.1	92.7	95.8	98.2	98.2	99.4	99.4	99.4	99.4	99.4	99.4
IV 300	3.3	56.4	66.7	76.4	89.1	92.1	92.7	95.8	98.2	98.2	99.4	99.4	99.4	99.4	99.4	99.4
IV 200	3.3	56.4	66.7	76.4	89.1	92.1	92.7	95.8	98.2	98.2	99.4	99.4	99.4	99.4	99.4	100.0
IV 100	3.3	56.4	66.7	76.4	89.1	92.1	92.7	95.8	98.2	98.2	99.4	99.4	99.4	99.4	99.4	100.0
IV 0	3.3	56.4	66.7	76.4	89.1	92.1	92.7	95.8	98.2	98.2	99.4	99.4	99.4	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS

105

DIRNAVUCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

SEP

MONTH

36

HOURS LAST

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	17.7	14.7	15.4	15.4	21.7	23.3	24.7	27.7	24.4	23.8	24.8	29.1	29.5	29.5	29.5	29.8
≥ 20000	16.9	18.5	21.2	21.6	27.4	29.5	30.8	34.6	35.3	35.6	35.6	36.0	36.3	36.3	36.3	36.6
≥ 18000	16.9	18.5	21.2	21.6	27.4	29.5	30.8	34.6	35.3	35.6	35.6	36.0	36.3	36.3	36.3	36.6
≥ 16000	16.9	18.5	21.2	21.6	27.4	29.5	30.8	34.6	35.3	35.6	35.6	36.0	36.3	36.3	36.3	36.6
≥ 14000	17.1	18.3	20.6	21.9	28.4	30.5	31.9	35.6	36.6	37.0	37.0	37.3	37.7	37.7	37.7	38.0
≥ 12000	17.2	21.1	22.6	25.1	32.5	34.6	36.3	40.4	41.4	41.8	41.8	42.1	42.5	42.5	42.5	42.8
≥ 10000	17.1	24.0	25.7	27.4	36.1	38.4	40.4	45.6	46.6	46.9	46.9	47.3	47.6	47.6	47.6	48.0
≥ 9000	17.2	24.7	26.4	28.1	36.6	39.1	41.1	46.2	47.3	47.6	47.6	48.0	48.3	48.3	48.3	48.6
≥ 8000	23.6	26.7	28.8	31.2	41.1	43.1	45.9	51.4	52.4	52.7	52.7	53.1	53.4	53.4	53.4	53.8
≥ 7000	24.7	27.1	29.1	31.5	41.4	44.2	46.2	51.7	52.7	53.1	53.1	53.4	53.8	53.8	53.8	54.1
≥ 6000	24.7	27.7	29.8	32.2	42.1	45.2	47.3	52.7	53.8	54.1	54.1	54.5	54.8	54.8	54.8	55.1
≥ 5000	24.7	28.1	30.5	33.2	43.8	46.9	49.0	54.8	55.8	56.2	56.2	56.5	56.9	56.9	56.9	57.2
≥ 4500	24.1	31.1	33.2	37.3	46.7	51.0	53.4	60.3	62.0	62.3	62.3	62.7	63.0	63.0	63.0	63.4
≥ 4000	24.5	33.6	37.3	43.2	50.8	57.9	61.0	67.8	69.9	70.2	70.2	70.6	70.9	70.9	70.9	71.2
≥ 3500	24.2	34.3	37.7	44.2	56.2	59.3	63.4	71.2	72.6	73.0	73.0	73.3	73.6	73.6	73.6	74.0
≥ 3000	33.6	36.6	41.6	47.6	67.6	64.1	69.2	75.3	78.1	78.4	78.4	78.8	79.1	79.1	79.1	79.5
≥ 2500	34.7	38.4	42.5	47.3	62.7	66.1	71.6	78.4	81.2	81.5	81.5	81.9	82.2	82.2	82.2	82.5
≥ 2000	34.7	39.7	43.9	51.0	65.1	68.5	73.7	80.8	83.6	83.9	83.9	84.3	84.6	84.6	84.6	84.9
≥ 1800	34.7	39.7	43.8	51.0	65.1	68.5	73.0	80.8	83.6	83.9	83.9	84.3	84.6	84.6	84.6	84.9
≥ 1500	34.7	40.1	44.9	52.4	67.1	70.6	76.4	84.9	87.7	88.0	88.0	88.4	88.7	88.7	88.7	89.2
≥ 1200	34.7	40.8	44.9	52.4	67.5	70.9	77.1	86.0	89.8	90.1	90.1	90.8	91.1	91.1	91.1	91.4
≥ 1000	34.6	40.6	44.9	53.1	69.2	72.6	78.8	88.7	93.2	93.8	93.8	94.5	94.9	94.9	94.9	95.2
≥ 900	34.6	40.8	44.9	53.1	69.2	72.6	78.8	88.7	93.2	93.8	93.8	94.5	94.9	94.9	94.9	95.2
≥ 800	34.6	40.8	44.9	53.1	69.2	72.6	78.8	88.7	93.2	93.8	93.8	94.5	94.9	94.9	94.9	95.2
≥ 700	34.6	40.8	44.9	53.1	69.2	72.6	78.8	88.7	93.2	93.8	93.8	94.5	94.9	94.9	94.9	95.2
≥ 600	34.6	40.8	44.9	53.1	69.2	72.6	78.8	88.7	93.2	93.8	93.8	94.5	94.9	94.9	94.9	95.2
≥ 500	34.6	40.8	44.9	53.1	69.2	72.6	78.8	88.7	93.2	93.8	93.8	94.5	94.9	94.9	94.9	95.2
≥ 400	34.6	40.8	44.9	53.1	69.2	72.6	78.8	88.7	93.2	93.8	93.8	94.5	94.9	94.9	94.9	95.2
≥ 300	34.6	40.8	44.9	53.1	69.2	72.6	78.8	88.7	93.2	93.8	93.8	94.5	94.9	94.9	94.9	95.2
≥ 200	34.6	40.8	44.9	53.1	69.2	72.6	78.8	88.7	93.2	93.8	93.8	94.5	94.9	94.9	94.9	95.2
≥ 100	34.6	40.8	44.9	53.1	69.2	72.6	78.8	88.7	93.2	93.8	93.8	94.5	94.9	94.9	94.9	95.2
≥ 0	34.6	40.8	44.9	53.1	69.2	72.6	78.8	88.7	93.2	93.8	93.8	94.5	94.9	94.9	94.9	95.2

TOTAL NUMBER OF OBSERVATIONS 292

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHVILLE, NC

CEILING VERSUS VISIBILITY

STATION NO. 77-2
STATION NAME

77-2

YEARS

SEP
1959PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS PER YEAR

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	0.1	21.6	24.2	25.6	30.1	30.8	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
≥ 20000	27.4	25.4	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 18000	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 16000	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 14000	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 12000	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 10000	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 9000	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 8000	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 7000	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 6000	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 5000	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 4500	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 4000	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 3500	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 3000	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 2500	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 2000	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 1800	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 1500	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 1200	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 1000	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 900	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 800	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 700	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 600	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 500	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 400	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 300	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 200	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 100	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
IV 0	28.8	25.3	24.2	30.8	36.7	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1

TOTAL NUMBER OF OBSERVATIONS

295

DIRNAVCEANMET SMOS

NAVAL WEATHER SERVICE DETAIL OFFICE, KATHLEEN, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	1.0	12.5	23.5	24.2	24.8	24.1	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
≥ 20000	0.7	11.3	32.7	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 18000	0.7	11.3	32.7	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 16000	0.7	11.3	32.7	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 14000	1.3	33.7	35.0	36.4	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
≥ 12000	34.2	27.1	39.8	40.1	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
≥ 10000	34.4	39.8	41.8	43.9	46.3	46.6	46.6	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
≥ 9000	7.1	40.5	42.5	44.6	46.9	47.3	47.3	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
≥ 8000	7.4	40.2	44.2	46.9	50.0	50.7	50.7	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 7000	31.9	42.5	44.6	47.6	50.7	51.4	51.4	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 6000	31.9	43.5	46.6	49.6	52.0	52.7	52.7	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 5000	31.9	44.6	46.9	50.0	54.1	54.8	54.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 4500	41.0	45.6	47.3	53.1	57.1	58.2	58.2	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 4000	3.2	45.6	52.4	57.1	62.2	63.3	63.6	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 3500	44.7	45.7	57.4	58.5	64.6	65.7	66.3	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
≥ 3000	45.7	51.7	55.8	60.9	68.4	70.1	71.1	71.8	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
≥ 2500	45.7	50.0	60.5	66.0	74.2	75.9	76.9	77.9	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 2000	3.4	50.0	60.5	70.4	75.3	81.0	82.3	83.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 1800	3.4	50.0	60.5	70.4	75.3	81.0	82.3	83.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 1500	4.4	61.2	66.7	73.5	82.3	84.0	86.1	87.1	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥ 1200	54.0	61.6	67.0	73.8	83.3	85.0	87.4	88.8	89.1	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 1000	54.0	61.6	67.4	74.2	85.0	87.1	89.5	91.8	92.5	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 900	54.0	61.6	67.4	74.2	85.4	87.8	90.1	92.5	93.2	93.9	94.2	94.2	94.2	94.2	94.2	94.2
≥ 800	54.0	61.6	67.4	74.5	86.4	89.1	91.5	94.2	94.9	95.9	96.3	96.3	96.3	96.3	96.3	96.3
≥ 700	54.0	61.6	67.7	74.8	86.7	89.5	92.2	94.9	95.6	96.6	96.9	96.9	96.9	96.9	96.9	96.9
≥ 600	54.0	61.6	67.7	74.8	87.4	90.1	93.2	95.9	96.9	98.0	98.3	98.3	98.3	98.3	98.3	98.3
≥ 500	54.0	61.9	68.0	75.2	87.8	90.5	93.5	96.3	97.3	98.6	99.0	99.0	99.0	99.0	99.0	99.0
≥ 400	54.0	61.7	68.0	75.2	87.8	90.5	93.5	96.3	97.6	99.0	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	54.0	61.9	68.0	75.2	87.8	90.8	93.9	96.6	98.0	99.3	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	54.0	61.9	68.0	75.2	87.8	90.8	93.9	96.6	98.0	99.3	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	54.0	61.9	68.0	75.2	87.8	90.8	93.9	96.6	98.0	99.3	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0	54.0	61.9	68.0	75.2	87.8	90.8	93.9	96.6	98.0	99.3	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 294

DIRNAUCEANMET SMOS

NATIONAL WEATHER SERVICE - STATION NAME

CEILING VERSUS VISIBILITY

STATION

STATION NAME

STATION NAME

STATION NAME

STATION NAME

STATION NAME

STATION NAME

STATION NAME

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

STATION NAME

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 3/8	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
≥ 20000	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 18000	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 16000	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 14000	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 12000	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 10000	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 9000	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 8000	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 7000	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 6000	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 5000	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 4500	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 4000	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 3500	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 3000	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 2500	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 2000	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 1800	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 1500	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 1200	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 1000	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 900	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 800	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 700	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 600	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 500	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 400	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 300	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 200	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 100	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
IV 0	1.0	22.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6

TOTAL NUMBER OF OBSERVATIONS 292

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

NATIONAL WEATHER SERVICE - CHICAGO, ILL.

STATION NO.

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1	≥ .05	≥ 0
NO CEILING	...	26.1	27.4	24.7	25.3	27.5	26.3	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9
≥ 20000	27.1	27.2	27.9	31.6	32.1	32.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
IV 18000	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 16000	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 14000	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 12000	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 10000	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 9000	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 8000	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 7000	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 6000	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 5000	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 4500	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 4000	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 3500	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 3000	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 2500	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 2000	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 1800	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 1500	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 1200	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 1000	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 900	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 800	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 700	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 600	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 500	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 400	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 300	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 200	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 100	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
IV 0	25.1	28.2	27.9	21.6	33.1	33.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7

TOTAL NUMBER OF OBSERVATIONS 291

DIVNAVOCEANMET SMDS

NAVAL WEATHER SERVICE DETACHMENT, WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

72-21

YEAR

SEP

21

HOURLY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
≥ 20000	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
18000	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
16000	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
14000	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
12000	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
10000	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
9000	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
8000	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
7000	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
6000	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
5000	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
4500	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
4000	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
3500	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
3000	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
2500	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
2000	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
1800	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
1500	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
1200	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
1000	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
900	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
800	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
700	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
600	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
500	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
400	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
300	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
200	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
100	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
0	1.4	21.4	27.5	30.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7

TOTAL NUMBER OF OBSERVATIONS

257

DIRNAVOCEANMET SMOS

DATA WEATHER SERVICE DATA REPORT WMO FORM NO.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

CEILING
METERS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	1.1	21.3	22.0	23.7	24.2	26.1	27.2	27.7	27.9	27.9	27.9	28.0	28.0	28.1	28.1	28.1
≥ 20000	1.1	26.4	27.0	27.4	32.4	33.0	33.6	34.2	34.3	34.4	34.4	34.4	34.5	34.5	34.5	34.5
≥ 18000	1.1	26.7	27.0	27.6	32.6	33.3	33.9	34.4	34.6	34.6	34.6	34.7	34.7	34.7	34.7	34.7
≥ 16000	1.1	26.7	27.0	27.6	32.6	33.3	33.9	34.4	34.6	34.6	34.6	34.7	34.7	34.7	34.7	34.7
≥ 14000	1.1	27.1	27.9	28.4	34.8	35.6	36.1	36.7	36.7	36.9	36.9	37.0	37.0	37.0	37.0	37.0
≥ 12000	1.1	27.1	35.1	36.4	41.4	42.1	43.0	43.8	43.8	43.9	43.9	43.7	44.0	44.0	44.0	44.0
≥ 10000	1.1	27.3	47.2	47.3	47.7	48.7	49.9	50.6	50.9	50.9	50.9	50.9	51.0	51.0	51.0	51.0
≥ 9000	1.1	28.1	42.0	43.0	43.4	49.5	50.3	51.3	51.5	51.6	51.6	51.7	51.7	51.7	51.7	51.7
≥ 8000	1.1	40.2	43.5	46.0	52.1	53.4	54.4	55.5	55.9	55.9	55.9	56.1	56.1	56.1	56.1	56.1
≥ 7000	1.1	40.6	44.0	47.4	52.8	54.1	55.2	56.2	56.5	56.6	56.6	56.6	56.7	56.7	56.7	56.7
≥ 6000	1.1	41.4	44.7	47.4	53.7	55.0	56.0	57.1	57.4	57.5	57.5	57.6	57.6	57.6	57.6	57.6
≥ 5000	1.1	42.1	46.4	49.4	56.3	58.0	59.0	60.3	60.7	60.8	60.8	60.9	60.9	60.9	60.9	60.9
≥ 4500	1.1	44.6	47.5	52.1	59.9	61.6	62.7	64.4	64.9	65.0	65.0	65.0	65.1	65.1	65.1	65.1
≥ 4000	1.1	47.8	52.7	57.1	66.2	68.3	69.6	71.5	72.1	72.2	72.2	72.3	72.3	72.3	72.3	72.3
≥ 3500	1.1	49.1	54.3	58.9	68.7	70.8	72.4	74.3	75.7	75.1	75.1	75.2	75.2	75.2	75.2	75.2
≥ 3000	1.1	51.1	56.5	61.4	72.3	74.6	76.3	78.4	79.2	79.3	79.4	79.4	79.5	79.5	79.5	79.5
≥ 2500	1.1	52.4	58.1	63.2	74.4	76.4	78.8	81.1	81.9	82.1	82.1	82.2	82.2	82.2	82.2	82.2
≥ 2000	1.1	53.9	59.9	65.2	77.2	79.8	81.8	84.3	85.1	85.3	85.4	85.4	85.5	85.5	85.5	85.5
≥ 1800	1.1	53.9	60.9	66.2	77.2	79.8	81.9	84.3	85.2	85.4	85.4	85.5	85.5	85.5	85.5	85.5
≥ 1500	1.1	54.6	61.8	66.2	78.9	81.7	84.3	87.1	88.0	88.2	88.3	88.4	88.4	88.4	88.4	88.4
≥ 1200	1.1	54.6	61.7	66.6	81.3	83.7	86.5	89.7	90.8	91.1	91.4	91.5	91.6	91.6	91.6	91.6
≥ 1000	1.1	55.1	61.5	67.4	81.9	85.4	88.6	92.3	93.3	94.7	95.1	95.2	95.2	95.2	95.2	95.2
≥ 900	1.1	55.1	61.5	67.4	82.1	85.6	88.8	92.6	94.2	95.1	95.4	95.5	95.6	95.6	95.6	95.6
≥ 800	1.1	55.2	61.3	67.8	82.9	86.6	90.0	94.2	96.1	97.1	97.6	97.8	97.9	97.9	97.9	97.9
≥ 700	1.1	55.2	61.7	67.9	83.2	86.9	90.4	94.5	96.5	97.6	98.1	98.4	98.4	98.4	98.4	98.4
≥ 600	1.1	55.2	61.9	67.7	83.6	87.3	91.0	95.3	97.3	98.4	98.9	99.2	99.2	99.2	99.2	99.2
≥ 500	1.1	55.3	62.7	68.0	83.6	87.3	91.0	95.3	97.5	98.7	99.1	99.5	99.5	99.5	99.5	99.5
≥ 400	1.1	55.3	62.0	68.0	83.6	87.3	91.0	95.3	97.5	98.7	99.2	99.5	99.6	99.6	99.6	99.6
≥ 300	1.1	55.3	62.1	68.1	83.7	87.5	91.2	95.5	97.7	98.9	99.4	99.8	99.9	99.9	99.9	99.9
≥ 200	1.1	55.3	62.1	68.1	83.7	87.5	91.2	95.5	97.7	98.9	99.4	99.8	99.9	99.9	99.9	99.9
≥ 100	1.1	55.3	62.1	68.1	83.7	87.5	91.2	95.5	97.7	98.9	99.4	99.8	99.9	99.9	99.9	99.9
≥ 0	1.1	55.3	62.1	68.1	83.7	87.5	91.2	95.5	97.7	98.9	99.4	99.8	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 2079

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE STATION METEOROLOGICAL

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

007
NORTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS 1.5

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	0.1	2.3	23.4	26.1	26.1	29.9	30.3	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
≥ 20000	0.1	21.3	26.1	26.5	34.1	34.1	35.1	36.7	37.2	37.2	37.8	37.8	37.8	37.8	37.8	37.8
IV 18000	0.1	21.3	26.1	29.3	34.6	35.1	35.6	37.2	37.9	37.9	38.3	38.3	38.3	38.3	38.3	38.3
IV 16000	0.1	21.3	26.1	29.3	34.6	35.1	35.6	37.2	37.8	37.8	38.3	38.3	38.3	38.3	38.3	38.3
IV 14000	0.1	22.3	27.1	30.3	35.6	36.2	36.7	38.3	38.8	38.8	39.4	39.4	39.4	39.4	39.4	39.4
IV 12000	1.1	25.1	26.1	33.5	36.8	39.4	39.9	42.1	42.4	42.6	43.1	43.1	43.1	43.1	43.1	43.1
IV 10000	0.7	31.2	37.3	42.0	47.5	50.5	51.1	53.7	54.3	54.3	54.8	54.8	54.8	54.8	54.8	54.8
IV 9000	0.7	31.2	37.3	42.1	47.5	50.5	51.1	54.3	54.8	54.8	55.3	55.3	55.3	55.3	55.3	55.3
IV 8000	3.1	37.4	45.7	50.3	59.6	61.2	62.8	65.4	66.7	66.7	66.5	66.5	66.5	66.5	66.5	66.5
IV 7000	3.7	39.7	46.3	51.5	57.1	61.7	63.3	66.0	66.5	66.5	67.3	67.3	67.3	67.3	67.3	67.3
IV 6000	3.7	39.7	46.3	51.5	60.1	61.7	63.3	66.7	66.5	66.5	67.7	67.7	67.7	67.7	67.7	67.7
IV 5000	0.7	41.5	47.2	52.1	62.2	64.4	66.1	66.6	69.2	69.2	69.7	69.7	69.7	69.7	69.7	69.7
IV 4500	0.1	43.6	50.0	54.3	64.4	67.7	68.6	71.8	72.0	72.9	73.4	73.4	73.4	73.4	73.4	73.4
IV 4000	0.1	46.3	53.2	57.0	70.2	72.9	74.5	77.7	78.7	79.3	79.8	79.8	79.8	79.8	79.8	79.8
IV 3500	0.1	47.7	54.7	60.1	72.9	76.1	77.7	81.4	82.5	83.3	83.5	83.5	83.5	83.5	83.5	83.5
IV 3000	4.2	48.4	55.0	61.2	74.5	78.2	80.3	84.6	85.6	86.2	86.7	86.7	86.7	86.7	86.7	86.7
IV 2500	44.7	48.9	56.4	61.7	75.1	78.7	81.4	85.6	87.7	87.3	88.3	88.3	88.3	88.3	88.3	88.3
IV 2000	45.2	47.5	55.9	62.2	75.5	79.3	81.9	86.2	87.8	88.3	88.8	88.8	88.8	88.8	88.8	88.8
IV 1800	41.7	46.5	56.9	62.2	75.5	79.3	81.9	86.2	87.8	88.3	88.8	88.8	88.8	88.8	88.8	88.8
IV 1500	45.2	47.5	57.5	62.8	76.1	80.3	83.0	87.8	89.9	90.4	91.0	91.0	91.0	91.0	91.0	91.0
IV 1200	45.2	50.0	55.5	64.4	76.3	84.0	87.2	92.0	94.2	94.7	95.2	95.2	95.2	95.2	95.2	95.2
IV 1000	46.1	51.1	60.1	66.0	81.4	86.2	89.4	94.2	96.3	96.8	97.9	97.9	97.9	97.9	97.9	97.9
IV 900	46.1	51.1	60.1	66.0	81.4	86.2	89.4	94.2	96.3	96.8	97.9	97.9	97.9	97.9	97.9	97.9
IV 800	46.1	51.1	60.1	66.0	82.5	87.2	90.4	95.2	97.3	97.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 700	46.1	51.1	60.1	66.0	82.5	87.2	90.4	95.2	97.3	97.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 600	46.1	51.1	60.1	66.0	82.5	87.2	90.4	95.2	97.3	97.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 500	45.1	51.1	60.1	66.0	82.5	87.2	90.4	95.2	97.3	97.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 400	46.1	51.1	60.1	66.0	82.5	87.2	90.4	95.2	97.3	97.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 300	46.1	51.1	60.1	66.0	83.0	87.8	91.0	95.7	97.9	98.4	99.5	99.5	99.5	99.5	99.5	99.5
IV 200	46.1	51.1	60.1	66.0	83.0	87.8	91.0	95.7	97.9	98.4	99.5	99.5	99.5	99.5	99.5	100.0
IV 100	46.1	51.1	60.1	66.0	83.0	87.8	91.0	95.7	97.9	98.4	99.5	99.5	99.5	99.5	99.5	100.0
IV 0	46.1	51.1	60.1	66.0	83.0	87.8	91.0	95.7	97.9	98.4	99.5	99.5	99.5	99.5	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 106

DIRNAVCEANMET 5MOS

CEILING VERSUS VISIBILITY

STATION NAME: STATION NAME: YEAR: MONTH: DAY:
 PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .4	≥ .3	≥ .25	≥ .2	≥ .15	≥ 0
NO CEILING	1.1	1.1	24.1	25.7	28.4	29.0	29.1	29.5	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥ 20000	1.1	23.1	26.1	29.1	32.1	33.1	33.3	33.3	33.7	35.0	35.0	35.0	35.0	35.0	35.0	35.0
IV 18000	1.1	23.1	26.1	29.1	32.2	33.3	33.3	33.4	35.7	35.0	35.0	35.0	35.0	35.0	35.0	35.0
IV 16000	1.1	23.1	26.1	29.1	32.8	33.3	33.3	34.4	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
IV 14000	1.1	23.1	26.1	29.1	32.3	33.9	33.9	34.4	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
IV 12000	1.1	26.1	31.2	33.3	35.3	39.3	39.9	41.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
IV 10000	3.3	35.1	37.3	42.1	47.5	49.7	50.3	51.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 9000	3.3	35.1	41.5	44.3	49.7	51.3	52.3	53.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
IV 8000	3.3	44.3	49.7	53.5	58.5	61.2	62.3	63.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
IV 7000	3.3	45.1	50.3	54.1	59.6	62.3	63.7	65.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 6000	4.3	47.1	51.3	55.2	61.2	64.5	65.6	66.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
IV 5000	4.3	47.5	52.3	55.7	61.8	65.1	66.7	67.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
IV 4500	4.3	49.2	54.3	58.5	65.5	69.4	71.1	72.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
IV 4000	4.3	51.3	57.9	62.8	70.5	74.3	76.5	78.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
IV 3500	5.3	53.0	59.0	63.9	71.6	76.0	79.2	80.9	82.7	82.5	82.5	82.5	82.5	82.5	82.5	82.5
IV 3000	5.3	53.0	60.1	65.0	74.3	79.2	83.6	85.3	86.3	86.9	86.9	86.9	86.9	86.9	86.9	86.9
IV 2500	5.3	53.0	60.7	65.6	74.9	79.8	84.7	86.3	87.4	88.1	88.0	88.0	88.0	88.0	88.0	88.0
IV 2000	5.3	54.1	61.2	66.7	76.0	81.4	86.3	88.0	89.1	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 1800	5.3	54.1	61.8	66.7	76.0	81.4	86.3	88.0	89.1	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 1500	5.3	54.1	61.8	66.3	77.6	83.1	88.0	89.6	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3
IV 1200	5.3	54.1	61.8	66.9	79.8	86.3	91.3	92.9	94.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 1000	5.3	54.1	62.3	69.4	82.1	88.3	93.4	95.1	96.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 900	5.3	54.1	62.3	69.4	82.1	88.3	93.4	95.1	96.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 800	5.3	54.1	62.3	71.0	82.5	89.1	94.5	96.2	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 700	5.3	54.1	62.3	71.0	82.5	89.1	94.5	96.2	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 600	5.3	54.1	62.3	70.0	82.5	89.1	94.5	96.2	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 500	5.3	54.1	62.3	70.0	82.5	89.1	94.5	96.2	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 400	5.3	54.1	62.3	70.0	82.5	89.1	94.5	96.2	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 300	5.3	54.1	62.3	70.0	82.5	89.1	94.5	96.2	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 200	5.3	54.1	62.3	70.0	82.5	89.1	94.5	96.2	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 100	5.3	54.1	62.3	70.0	82.5	89.1	94.5	96.2	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 0	5.3	54.1	62.3	70.0	82.5	89.1	94.5	96.2	97.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4

TOTAL NUMBER OF OBSERVATIONS: 143

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS L.S.T.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
≥ 20000	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
IV 18000	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
IV 16000	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
IV 14000	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
IV 12000	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
IV 10000	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
IV 9000	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
IV 8000	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
IV 7000	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
IV 6000	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
IV 5000	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
IV 4500	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
IV 4000	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
IV 3500	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
IV 3000	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
IV 2500	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
IV 2000	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
IV 1800	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
IV 1500	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
IV 1200	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
IV 1000	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 900	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IV 800	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 700	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 600	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 500	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 400	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 300	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 200	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 100	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 0	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS

DIRNAVCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

DIRECTION

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MOUSE 1.5.7

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
≥ 20000	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 18000	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 16000	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 14000	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 12000	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 10000	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 9000	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 8000	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 7000	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 6000	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 5000	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 4500	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 4000	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
≥ 3500	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
≥ 3000	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
≥ 2500	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
≥ 2000	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
≥ 1800	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
≥ 1500	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
≥ 1200	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
≥ 1000	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
≥ 900	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 800	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 700	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 600	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 500	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 400	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 300	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 200	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 100	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6
IV 0	74.1	7.1	7.1	34.4	74.4	74.7	70.1	70.1	30.4	39.9	37.3	24.8	75.7	37.6	30.6	30.6

TOTAL NUMBER OF OBSERVATIONS 3

DATA SOURCE: METEOROLOGICAL

CEILING VERSUS VISIBILITY

YIAI

12

NOV 21 1981

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 3	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1½	≥ 1	≥ ¾	≥ ¾	≥ ¾	≥ 3/16	≥ ¼	≥ 0
NO CEILING	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
≥ 20000	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 18000	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 16000	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 14000	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 12000	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 10000	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 9000	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 8000	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 7000	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 6000	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 5000	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 4500	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 4000	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 3500	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 3000	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 2500	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 2000	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 1800	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 1500	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 1200	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 1000	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 900	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 800	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 700	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 600	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 500	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 400	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 300	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 200	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 100	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
IV 0	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4

207

DIRNAVOC EANTMET SMUS

NAVAL WEATHER SERVICE DETACHMENT WHEELEDON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 70000	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 18000	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 14000	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 14000	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 12000	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 10000	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 9000	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 8000	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 7000	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 6000	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 5000	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 4500	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 4000	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 3500	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 3000	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 2500	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 2000	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 1800	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 1500	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 1200	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 1000	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 900	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 800	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 700	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 600	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 500	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 400	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 300	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 200	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 100	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 0	36.7	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1

TOTAL NUMBER OF OBSERVATIONS 224

DIRNAVOCEANMET SMOS

NATIONAL WEATHER SERVICE DETROIT MI 48201

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

OCT
NORTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 3/16	≥ 1/32
NO CEILING	2.0	23.3	25.0	22.7	30.1	31.1	32.4	32.8	32.2	32.8	32.6	32.8	32.8	32.8	32.8	32.8
≥ 20000	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 18000	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 16000	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 14000	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 12000	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 10000	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 9000	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 8000	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 7000	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 6000	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 5000	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 4500	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 4000	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 3500	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 3000	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 2500	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 2000	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 1800	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 1500	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 1200	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 1000	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 900	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 800	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 700	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 600	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 500	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 400	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 300	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 200	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 100	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
IV 0	2.0	25.0	27.4	26.7	34.5	36.2	37.8	38.5	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2

TOTAL NUMBER OF OBSERVATIONS 276

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT WASHINGTON

CEILING VERSUS VISIBILITY

STATION

STATION NAME

77-8

YEARS

OCT
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

21
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	25.3	25.4	25.7	25.9	26.1	26.3	26.5	26.7	26.9	27.1	27.3	27.5	27.7	27.9	28.1	28.3
≥ 20000	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 18000	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 16000	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 14000	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 12000	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 10000	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 9000	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 8000	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 7000	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 6000	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 5000	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 4500	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 4000	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 3500	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 3000	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 2500	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 2000	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 1800	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 1500	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 1200	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 1000	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 900	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 800	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 700	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 600	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 500	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 400	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 300	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 200	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 100	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
≥ 0	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4

TOTAL NUMBER OF OBSERVATIONS

258

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ADDRESS

CEILING VERSUS VISIBILITY

STATION NAME 73-FL YEARS OCT MONTH ALL HOURS DAY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 20000	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 18000	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 16000	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 14000	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 12000	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 10000	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 9000	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 8000	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 7000	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 6000	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 5000	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 4500	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 4000	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 3500	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 3000	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 2500	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 2000	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 1800	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 1500	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 1200	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 1000	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 900	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 800	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 700	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 600	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 500	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 400	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 300	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 200	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 100	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0
≥ 0	25.2	27.0	24.8	31.9	37.4	37.9	33.4	33.7	33.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0

TOTAL NUMBER OF OBSERVATIONS 2129

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHVILLE, NC

CEILING VERSUS VISIBILITY

STATION NO. 16-7 YEARS 1960 MONTH 0 HOURS 15

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING	26.3	27.0	31.2	31.3	33.0	33.0	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.9
≥ 20000	26.6	31.3	33.5	36.0	38.0	38.0	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
IV 18000	29.6	31.3	33.5	36.0	38.0	38.0	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
IV 16000	29.6	31.3	33.5	36.0	38.0	38.0	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
IV 14000	30.7	33.4	35.2	38.6	39.7	39.7	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
IV 12000	33.0	34.0	37.4	40.3	42.5	43.0	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
IV 10000	39.7	41.0	45.3	50.3	52.5	53.6	54.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
IV 9000	40.5	42.0	46.4	51.4	53.6	54.8	55.3	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 8000	44.7	47.5	50.8	55.9	58.1	59.2	59.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
IV 7000	46.4	47.2	52.5	57.5	59.8	60.9	61.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
IV 6000	46.9	49.7	53.1	58.1	60.3	61.5	62.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
IV 5000	52.0	55.3	59.2	64.3	67.0	68.7	69.8	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 4500	55.3	58.7	63.1	68.7	71.5	73.2	74.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
IV 4000	58.2	62.6	67.6	74.9	78.8	81.6	83.2	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
IV 3500	60.9	65.4	70.4	78.2	82.1	85.5	87.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
IV 3000	60.9	65.4	70.4	77.3	83.2	86.6	89.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
IV 2500	60.9	65.4	71.0	79.9	83.8	87.2	89.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
IV 2000	62.0	66.5	72.1	81.0	84.9	88.3	91.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IV 1800	62.0	66.5	72.1	81.0	84.9	88.3	91.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IV 1500	62.0	67.0	72.6	82.1	86.0	89.4	92.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
IV 1200	62.0	67.6	73.2	83.2	87.2	91.1	93.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 1000	62.0	67.6	73.7	84.4	88.3	93.3	96.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 900	62.0	67.6	73.7	84.4	88.3	93.3	96.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 800	62.0	67.6	73.7	84.4	88.3	93.3	96.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 700	62.0	67.6	73.7	84.4	88.3	93.3	96.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 600	62.0	67.6	73.7	84.9	88.8	93.9	96.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 500	62.0	67.6	73.7	84.9	88.8	93.9	96.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 400	62.0	67.6	73.7	84.9	88.8	93.9	96.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 300	62.0	67.6	73.7	84.9	88.8	93.9	96.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 200	62.0	67.6	73.7	84.9	88.8	93.9	96.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 100	62.0	67.6	73.7	84.9	88.8	93.9	96.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 0	62.0	67.6	73.7	84.9	88.8	93.9	96.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3

TOTAL NUMBER OF OBSERVATIONS 179

DIRNAVJCEANMET SMOS

NATIONAL WEATHER SERVICE DEPARTMENT ASHVILLE, NC

CEILING VERSUS VISIBILITY

STATION

STATION NAME

76-1

YEARS

NOV

MONTH

03

HOUSE 131

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
≥ 20000	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
18000	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
16000	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
14000	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
12000	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
10000	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
9000	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
8000	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
7000	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
6000	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
5000	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
4500	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
4000	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
3500	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
3000	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
2500	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
2000	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
1800	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
1500	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
1200	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
1000	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
900	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
800	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
700	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
600	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
500	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
400	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
300	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
200	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
100	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
0	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5

TOTAL NUMBER OF OBSERVATIONS 189

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION NO.

STATION NAME

YEAR

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

66
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING	72.4	76.4	37.1	39.2	43.4	44.4	45.1	45.3	45.9	46.2	46.5	46.5	46.5	46.5	46.5	46.5
≥ 20000	35.2	37.9	41.1	45.1	46.2	47.2	47.9	47.9	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0
≥ 18000	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 16000	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 14000	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 12000	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 10000	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 9000	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 8000	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 7000	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 6000	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 5000	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 4500	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 4000	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 3500	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 3000	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 2500	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 2000	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 1800	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 1500	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 1200	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 1000	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 900	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 800	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 700	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 600	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 500	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 400	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 300	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 200	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 100	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 0	35.2	37.9	41.1	45.1	46.2	47.2	48.3	48.3	48.6	49.0	49.0	49.0	49.0	49.0	49.0	49.0

TOTAL NUMBER OF OBSERVATIONS 298

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASPEN, COLO.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

73-2

YEARS

NOV

MONTH

09

HOURS PER DAY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
≥ 20000	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
18000	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
16000	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
14000	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
12000	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
10000	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
9000	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
8000	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
7000	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
6000	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
5000	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
4500	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
4000	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
3500	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
3000	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
2500	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
2000	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
1800	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
1500	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
1200	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
1000	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
900	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
800	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
700	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
600	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
500	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
400	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
300	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
200	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
100	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
0	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2

TOTAL NUMBER OF OBSERVATIONS

277

DIRNAVOCEANMET SMOS

NATIONAL WEATHER SERVICE WASHINGTON, D.C. 20540

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

NOV

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1.
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	76.1	39.7	34.7	40.7	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
≥ 20000	42.5	46.3	45.7	49.1	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
IV 18000	42.5	46.3	45.7	49.1	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
IV 16000	42.5	46.3	45.7	49.1	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
IV 14000	43.9	48.1	48.4	51.9	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
IV 12000	46.7	51.2	51.4	55.8	56.1	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
IV 10000	48.0	54.4	56.5	61.4	62.1	62.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
IV 9000	48.1	54.7	56.8	61.8	62.5	63.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
IV 8000	51.9	58.5	59.3	65.6	66.7	67.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
IV 7000	51.6	57.3	61.4	66.1	67.4	68.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
IV 6000	53.1	58.6	61.8	68.1	69.1	69.8	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
IV 5000	55.1	60.7	64.2	71.9	72.6	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
IV 4500	57.3	63.5	67.4	75.1	76.1	77.2	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
IV 4000	58.3	65.6	71.5	79.3	80.7	82.1	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
IV 3500	58.3	66.0	71.6	81.4	83.5	84.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IV 3000	60.7	67.7	74.0	84.6	87.5	89.5	91.6	91.9	91.9	91.9	92.3	92.3	92.3	92.3	92.3	92.3
IV 2500	61.1	68.1	74.4	85.6	88.1	90.5	92.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 2000	61.1	68.1	74.4	85.6	88.1	90.5	93.0	93.3	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0
IV 1800	61.1	68.1	74.4	85.6	88.1	90.5	93.0	93.3	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0
IV 1500	61.4	68.4	74.7	86.7	89.1	91.9	94.4	94.7	94.7	95.4	95.4	95.4	95.4	95.4	95.4	95.4
IV 1200	61.4	68.4	74.7	86.7	89.8	93.3	95.8	96.1	96.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5
IV 1000	61.4	68.4	74.7	87.4	90.2	93.3	96.5	97.2	97.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 900	61.4	68.4	74.7	87.4	90.2	93.3	96.8	97.5	97.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 800	61.4	68.4	74.7	87.4	90.2	93.3	97.2	97.9	97.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 700	61.4	68.4	74.7	87.4	90.2	93.3	97.2	97.9	97.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 600	61.4	68.4	74.7	87.4	90.2	93.3	97.2	97.9	97.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 500	61.4	68.4	74.7	87.4	90.5	93.7	97.5	98.3	98.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 400	61.4	68.4	74.7	87.4	90.5	93.7	97.5	98.3	98.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 300	61.4	68.4	74.7	87.4	90.5	93.7	97.5	98.3	98.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 200	61.4	68.4	74.7	87.4	90.5	93.7	97.5	98.3	98.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 100	61.4	68.4	74.7	87.4	90.5	93.7	97.5	98.3	98.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 0	61.4	68.4	74.7	87.4	90.5	93.7	97.5	98.3	98.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS

295

DIRNAVOCEANMET SMOS

NAVAL WEATHER CENTER, PLETON, VIRGINIA

CEILING VERSUS VISIBILITY

STATION: 11, JUNE STATION NAME: 11, JUNE YEARS: 15 MONTH: NOV
 PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0
NO CEILING	3.1	4.5	37.1	41.2	35.7	19.4	30.0	12.9	10.0	39.9	39.9	39.9	39.9	39.9	39.9
≥ 20000	0.1	42.1	44.5	46.3	46.4	48.0	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
IV 18000	0.1	42.1	44.5	46.6	46.8	49.1	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
IV 16000	0.1	42.1	44.5	47.0	47.1	49.5	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
IV 14000	0.1	42.1	46.3	48.1	50.0	51.2	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IV 12000	0.1	46.4	48.8	50.5	53.7	54.1	54.4	54.8	54.9	55.1	55.1	55.1	55.1	55.1	55.1
IV 10000	0.1	47.7	50.5	52.3	57.2	58.3	58.7	59.0	59.7	59.9	59.9	59.9	59.9	59.9	59.9
IV 9000	0.1	46.4	51.6	53.4	58.3	59.4	59.7	60.1	60.4	60.8	60.8	60.8	60.8	60.8	60.8
IV 8000	0.1	46.3	51.6	54.9	61.4	61.8	62.2	62.5	62.9	63.3	63.3	63.3	63.3	63.3	63.3
IV 7000	0.1	47.7	53.7	55.5	61.1	62.5	63.3	63.6	64.1	64.3	64.3	64.3	64.3	64.3	64.3
IV 6000	0.1	51.7	55.8	58.1	64.3	65.7	66.8	67.1	67.5	67.8	67.8	67.8	67.8	67.8	67.8
IV 5000	1.2	55.9	60.1	62.9	70.3	71.7	72.8	73.1	73.5	73.9	73.9	73.9	73.9	73.9	73.9
IV 4500	2.1	58.1	62.5	65.4	73.9	75.6	76.7	77.4	77.7	78.1	78.1	78.1	78.1	78.1	78.1
IV 4000	4.1	60.3	64.7	67.8	77.7	79.9	81.6	82.3	82.7	83.4	83.9	83.8	83.8	83.8	83.8
IV 3500	5.5	61.8	66.8	70.3	80.9	83.4	85.0	86.6	86.9	87.6	88.0	88.0	88.0	88.0	88.0
IV 3000	7.2	62.5	68.9	72.4	83.4	86.6	89.1	90.9	90.1	91.2	91.5	91.5	91.5	91.5	91.5
IV 2500	10.0	62.7	69.3	72.8	84.5	87.6	90.1	90.8	91.2	92.2	92.6	92.6	92.6	92.6	92.6
IV 2000	15.0	63.3	69.6	73.1	85.5	87.7	91.5	92.2	92.6	94.0	94.4	94.4	94.4	94.4	94.4
IV 1800	20.0	63.3	69.6	73.1	85.5	87.7	91.5	92.2	92.6	94.1	94.4	94.4	94.4	94.4	94.4
IV 1500	25.0	63.6	70.0	73.5	85.9	89.1	91.9	92.6	92.9	94.4	94.7	94.7	94.7	94.7	94.7
IV 1200	30.0	63.6	70.0	73.5	86.9	90.1	93.6	94.4	95.4	96.8	97.2	97.2	97.2	97.2	97.2
IV 1000	35.0	63.6	70.0	73.5	87.3	90.5	94.4	95.1	96.8	98.2	98.9	98.9	98.9	98.9	98.9
IV 900	40.0	63.6	70.0	73.5	87.3	90.5	94.4	95.1	96.8	98.2	98.9	98.9	98.9	98.9	98.9
IV 800	45.0	63.6	70.0	73.5	87.3	90.5	94.4	95.1	96.8	98.2	99.3	99.3	99.3	99.3	99.3
IV 700	50.0	63.6	70.0	73.5	87.3	90.5	94.4	95.1	96.8	98.2	99.7	99.7	99.7	99.7	99.7
IV 600	55.0	63.6	70.0	73.5	87.3	90.8	95.1	95.8	97.5	98.9	100.0	100.0	100.0	100.0	100.0
IV 500	60.0	63.6	70.0	73.5	87.3	90.8	95.1	95.8	97.5	98.9	100.0	100.0	100.0	100.0	100.0
IV 400	65.0	63.6	70.0	73.5	87.3	90.8	95.1	95.8	97.5	98.9	100.0	100.0	100.0	100.0	100.0
IV 300	70.0	63.6	70.0	73.5	87.3	90.8	95.1	95.8	97.5	98.9	100.0	100.0	100.0	100.0	100.0
IV 200	75.0	63.6	70.0	73.5	87.3	90.8	95.1	95.8	97.5	98.9	100.0	100.0	100.0	100.0	100.0
IV 100	80.0	63.6	70.0	73.5	87.3	90.8	95.1	95.8	97.5	98.9	100.0	100.0	100.0	100.0	100.0
IV 0	85.0	63.6	70.0	73.5	87.3	90.8	95.1	95.8	97.5	98.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 203

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	7.1	29.1	31.1	33.5	36.1	78.1	57.4	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
≥ 20000	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 18000	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 16000	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 14000	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 12000	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 10000	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 9000	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 8000	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 7000	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 6000	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 5000	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 4500	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 4000	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 3500	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 3000	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 2500	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 2000	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 1800	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 1600	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 1400	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 1200	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 1000	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 900	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 800	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 700	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 600	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 500	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 400	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 300	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 200	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 100	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 0	7.1	29.1	31.1	33.5	36.1	41.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7

TOTAL NUMBER OF OBSERVATIONS 251

DIRNAVOCEANMET SMOS

NATIONAL WEATHER SERVICE METEOROLOGICAL SERVICE

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

NO.

MONTH

DAY

HOURLY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 20000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 18000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 16000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 14000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 12000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 10000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 9000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 8000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 7000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 6000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 4500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 4000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 3500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 3000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 2500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 2000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 1800	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 1500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 1200	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 1000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 900	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 800	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 700	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 600	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 400	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 300	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 200	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 100	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

TOTAL NUMBER OF OBSERVATIONS

DIRNA VOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

FILE
NUMBER

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING	1.1	31.7	34.7	37.7	37.7	37.7	47.4	48.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 20000	1.1	31.7	37.7	37.7	37.7	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 18000	1.1	34.5	37.7	37.7	44.7	44.7	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 16000	1.1	34.5	37.7	37.7	44.7	44.7	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 14000	1.1	35.5	37.7	37.7	44.7	44.7	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 12000	1.1	37.4	44.7	44.7	47.4	47.4	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 10000	1.1	40.7	44.7	47.4	54.7	54.7	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 9000	7.1	41.2	44.7	54.7	54.7	54.7	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 8000	1.1	44.2	44.7	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 7000	1.1	44.2	44.7	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 6000	1.1	44.2	44.7	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 5000	4.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 4500	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 4000	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 3500	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 3000	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 2500	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 2000	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 1800	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 1500	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 1200	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 1000	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 900	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 800	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 700	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 600	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 500	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 400	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 300	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 200	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 100	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 0	1.1	44.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2

TOTAL NUMBER OF OBSERVATIONS

2222

DATE OF PREPARATION

NAVAL WEATHER SERVICE DETACHMENT, ARLINGTON, VA

CEILING VERSUS VISIBILITY

STATION

STATION NAME

76-10

YEARS

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING	4.7	44.5	47.1	42.7	52.6	57.2	59.2	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
≥ 20000	4.7	44.5	47.1	42.7	61.2	63.7	63.7	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
IV 18000	4.7	44.5	47.1	42.7	61.2	63.7	63.7	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
IV 16000	4.7	44.5	47.1	42.7	61.2	63.7	63.7	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
IV 14000	4.7	44.5	47.1	42.7	61.2	63.7	63.7	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
IV 12000	4.7	47.1	51.0	53.5	63.1	65.0	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IV 10000	11.0	52.9	56.7	59.2	70.1	72.0	72.0	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 9000	11.0	53.5	57.7	59.9	70.7	72.6	72.6	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
IV 8000	11.0	55.9	61.7	62.2	72.3	70.3	80.3	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
IV 7000	11.0	55.5	65.1	67.5	79.6	81.1	81.5	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
IV 6000	11.0	62.4	66.9	69.4	81.5	83.4	83.4	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
IV 5000	11.0	65.1	70.1	73.3	85.4	87.9	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
IV 4500	11.0	66.2	71.3	74.5	86.6	89.8	90.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
IV 4000	11.0	67.5	72.6	75.8	88.5	91.7	93.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IV 3500	11.0	67.5	72.6	75.8	88.5	92.4	93.6	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 3000	11.0	68.2	73.3	76.4	89.8	93.6	94.9	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 2500	11.0	68.8	73.9	77.1	90.5	94.3	96.2	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 2000	11.0	69.4	74.5	77.7	91.1	94.9	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 1800	11.0	69.4	74.5	77.7	91.1	95.5	97.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 1500	11.0	70.1	75.2	78.3	91.7	96.2	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	11.0	70.1	75.2	78.3	91.7	96.2	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	11.0	70.1	75.2	78.3	91.7	96.2	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	11.0	70.1	75.2	78.3	91.7	96.2	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	11.0	70.1	75.2	78.3	91.7	96.2	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	11.0	70.1	75.2	78.3	91.7	96.2	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	11.0	70.1	75.2	78.3	91.7	96.2	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	11.0	70.1	75.2	78.3	91.7	96.2	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	11.0	70.1	75.2	78.3	91.7	96.2	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	11.0	70.1	75.2	78.3	91.7	96.2	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	11.0	70.1	75.2	78.3	91.7	96.2	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	11.0	70.1	75.2	78.3	91.7	96.2	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	11.0	70.1	75.2	78.3	91.7	96.2	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 157

DIRNAVOCEANMET 5MOS

NAVAL WEATHER SERVICE REPORT FORM NO. 10-1

CEILING VERSUS VISIBILITY

STATION

STATION NAME

16-01

YEAR

050
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

03
HOURS PER DAY

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 20000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 18000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 16000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 14000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 12000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 10000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 9000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 8000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 7000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 6000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 5000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 4500	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 4000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 3500	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 3000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 2500	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 2000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 1800	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 1500	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 1200	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 1000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 900	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 800	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 700	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 600	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 500	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 400	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 300	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 200	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 100	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 0	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7

TOTAL NUMBER OF OBSERVATIONS 151

DIPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ANDREWS AFB

CEILING VERSUS VISIBILITY

STATION

STATION NAME

73-42

YEARS

DEC
NORTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)36
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	1.2	3.5	56.5	55.2	62.7	62.7	62.7	63.9	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 20000	1.2	34.2	57.3	61.0	63.9	63.9	63.9	65.0	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
IV 18000	1.2	34.2	57.3	61.0	63.9	63.9	63.9	65.0	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
IV 16000	1.2	34.2	57.3	61.0	63.9	63.9	63.9	65.0	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
IV 14000	1.2	34.2	57.3	61.0	63.9	63.9	63.9	65.0	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
IV 12000	4.7	57.3	61.0	63.9	67.7	67.7	67.7	68.9	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
IV 10000	1.2	34.2	64.2	66.9	71.2	71.5	71.9	73.1	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
IV 9000	1.2	34.2	65.4	68.1	72.3	72.7	73.1	74.2	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 8000	1.2	34.2	74.6	77.3	81.9	82.3	82.7	83.9	84.2	84.6	84.6	84.6	84.6	84.6	84.6	84.6
IV 7000	1.2	34.2	75.8	78.5	83.1	83.5	83.9	85.0	85.4	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IV 6000	1.2	34.2	76.5	79.2	83.9	84.2	84.6	85.8	86.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5
IV 5000	1.2	34.2	76.5	81.9	86.5	86.9	87.3	88.5	88.9	89.2	89.2	89.2	89.2	89.2	89.2	89.2
IV 4500	1.2	34.2	81.2	83.9	86.5	86.9	87.3	88.5	88.9	89.2	89.2	89.2	89.2	89.2	89.2	89.2
IV 4000	1.2	34.2	83.1	85.8	91.9	92.7	93.1	94.2	94.6	95.4	95.4	95.4	95.4	95.4	95.4	95.4
IV 3500	1.2	34.2	84.6	87.7	93.9	94.6	95.0	96.5	96.9	97.7	97.7	97.7	97.7	97.7	97.7	97.7
IV 3000	1.2	34.2	85.0	88.1	94.6	95.4	95.8	97.3	97.7	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 2500	1.2	34.2	85.0	88.1	94.6	95.4	95.8	97.3	97.7	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 2000	1.2	34.2	85.0	88.1	95.0	95.8	96.2	97.7	98.1	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 1800	1.2	34.2	85.0	88.1	95.0	95.8	96.2	97.7	98.1	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 1500	1.2	34.2	85.0	88.1	95.0	95.8	96.2	97.7	98.1	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 1200	1.2	34.2	85.0	88.1	95.0	95.8	96.2	97.7	98.1	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 1000	1.2	34.2	85.0	88.1	96.2	96.9	97.3	98.9	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	1.2	34.2	85.0	88.1	96.2	96.9	97.3	98.9	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	1.2	34.2	85.0	88.1	96.2	96.9	97.3	98.9	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	1.2	34.2	85.0	88.1	96.2	96.9	97.3	98.9	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	1.2	34.2	85.0	88.1	96.2	96.9	97.3	98.9	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	1.2	34.2	85.0	88.1	96.2	96.9	97.3	98.9	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	1.2	34.2	85.0	88.1	96.2	96.9	97.3	98.9	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	1.2	34.2	85.0	88.1	96.2	96.9	97.3	98.9	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	1.2	34.2	85.0	88.1	96.2	96.9	97.3	98.9	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	1.2	34.2	85.0	88.1	96.2	96.9	97.3	98.9	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	1.2	34.2	85.0	88.1	96.2	96.9	97.3	98.9	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 240

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE - WASHINGTON, D.C.

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

39
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 8	≥ 6	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 20000	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 18000	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 16000	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 14000	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 12000	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 10000	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 9000	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 8000	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 7000	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 6000	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 5000	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 4500	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 4000	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 3500	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 3000	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 2500	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 2000	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 1800	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 1500	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 1200	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 1000	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 900	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 800	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 700	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 600	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 500	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 400	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 300	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 200	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 100	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 0	27.1	27.1	33.6	39.7	51.5	53.0	54.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0

TOTAL NUMBER OF OBSERVATIONS 266

DIRNAVOCEANMET SMOS

NASA WEATHER SERVICE STATION NEW BEDFORD, MA

CEILING VERSUS VISIBILITY

STATION

73-42

STATION NAME

73-42

YEARS

DEC

MONTH

12

HOUS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 3/8	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 20000	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 18000	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 16000	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 14000	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 12000	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 10000	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 9000	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 8000	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 7000	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 6000	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 5000	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 4500	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 4000	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 3500	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 3000	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 2500	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 2000	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 1800	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 1600	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 1400	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 1200	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 1000	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 900	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 800	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 700	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 600	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 500	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 400	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 300	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 200	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 100	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 0	46.7	53.4	61.0	64.6	67.7	69.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8

TOTAL NUMBER OF OBSERVATIONS

277

DIRNAVOCEANMET SMOS

LOCAL WEATHER SERVICE, STATION NAME, ADDRESS, CITY, STATE, ZIP

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

17
HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	4.7	51.1	54.4	55.4	59.1	6.1	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
≥ 20000	1.7	55.4	61.2	62.7	67.8	68.6	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 18000	1.7	55.4	61.2	62.7	67.8	68.6	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 16000	1.7	55.4	61.2	63.5	69.1	69.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 14000	1.1	55.4	60.9	63.4	69.2	69.9	71.1	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 12000	2.2	57.3	62.3	64.9	70.7	71.7	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 10000	4.7	59.1	64.1	66.7	73.2	74.3	76.1	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 9000	4.2	59.1	64.1	66.7	73.2	74.3	76.6	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 8000	5.1	61.2	66.8	69.5	75.4	76.5	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 7000	5.1	61.2	66.8	69.5	75.7	76.8	79.7	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
≥ 6000	5.5	61.2	67.4	69.6	76.5	77.5	80.8	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 5000	5.3	62.7	68.5	71.4	78.6	80.1	83.3	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
≥ 4500	5.7	65.6	71.4	74.3	82.6	84.1	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 4000	1.6	67.4	73.5	76.5	85.9	87.3	90.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 3500	2.3	63.1	74.6	77.9	87.7	89.5	92.8	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 3000	3.1	63.8	75.4	79.0	89.1	91.3	94.6	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 2500	3.1	65.8	75.4	79.0	89.1	91.3	94.6	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
≥ 2000	3.1	65.8	75.4	79.0	89.1	91.7	95.3	97.1	97.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1800	3.1	65.8	75.4	79.0	89.1	91.7	95.3	97.1	97.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 1500	3.4	69.2	75.7	79.4	89.9	92.8	96.4	98.2	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1200	3.4	69.2	75.7	79.4	89.9	92.8	96.4	98.2	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000	3.4	69.2	75.7	79.4	89.9	92.8	96.4	98.2	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 900	3.4	69.2	75.7	79.4	89.9	92.8	96.4	98.2	98.9	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 800	3.4	69.2	75.7	79.4	89.9	92.8	96.4	98.2	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0
≥ 700	3.4	69.2	75.7	79.4	89.9	92.8	96.4	98.2	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0
≥ 600	3.4	69.2	75.7	79.4	89.9	92.8	96.4	98.2	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0
≥ 500	3.4	69.2	75.7	79.4	89.9	92.8	96.4	98.2	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0
≥ 400	3.4	69.2	75.7	79.4	89.9	92.8	96.4	98.2	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0
≥ 300	3.4	69.2	75.7	79.4	89.9	92.8	96.4	98.2	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0
≥ 200	3.4	69.2	75.7	79.4	89.9	92.8	96.4	98.2	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0
≥ 100	3.4	69.2	75.7	79.4	89.9	92.8	96.4	98.2	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0
≥ 0	3.4	69.2	75.7	79.4	89.9	92.8	96.4	98.2	98.9	99.6	99.6	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 276

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT A HONOLULU

CEILING VERSUS VISIBILITY

STATION NO. 3546 STATION NAME HONOLULU YEARS 1951-52 MONTH 15 HOURS 15.5

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	35.7	41.7	47.3	51.4	54.0	56.3	57.0	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 20000	37.6	44.0	46.0	51.7	62.1	63.5	64.3	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
IV 18000	37.6	44.0	46.0	51.7	62.1	63.5	64.3	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
IV 16000	37.6	44.4	47.3	51.7	62.5	63.9	64.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 14000	37.6	44.4	47.3	51.7	62.5	63.9	64.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 12000	40.4	47.3	51.2	64.3	66.1	67.9	69.0	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 10000	42.2	47.3	51.2	64.3	66.1	67.9	69.0	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 9000	43.1	47.3	51.2	64.3	66.1	67.9	69.0	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 8000	45.1	52.7	56.0	73.7	76.5	78.7	79.8	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
IV 7000	45.1	52.7	56.0	74.0	76.9	79.1	80.5	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
IV 6000	45.5	53.1	56.3	74.4	77.3	79.4	80.9	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
IV 5000	46.3	54.9	57.1	76.9	80.1	82.7	84.1	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
IV 4500	47.7	54.7	57.6	77.1	82.3	85.2	86.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
IV 4000	47.7	54.7	57.6	81.7	82.7	86.6	89.5	91.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
IV 3500	49.5	57.9	62.1	83.4	87.1	93.3	91.7	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
IV 3000	49.5	57.9	62.1	83.4	87.1	93.3	91.7	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
IV 2500	50.5	58.3	63.2	85.6	89.9	93.1	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 2000	50.9	59.2	63.5	85.9	90.6	93.9	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 1800	50.9	59.2	63.5	85.9	90.6	93.9	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 1500	50.9	59.2	63.5	85.9	90.6	93.9	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 1200	50.9	59.2	63.5	85.9	90.6	93.9	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 1000	50.9	59.2	63.5	85.9	90.6	93.9	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 900	50.9	59.2	63.5	85.9	90.6	93.9	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 800	50.9	59.2	63.5	85.9	90.6	93.9	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 700	50.9	59.2	63.5	85.9	90.6	93.9	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 600	50.9	59.2	63.5	85.9	90.6	93.9	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 500	50.9	59.2	63.5	85.9	90.6	93.9	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 400	50.9	59.2	63.5	85.9	90.6	93.9	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 300	50.9	59.2	63.5	85.9	90.6	93.9	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 200	50.9	59.2	63.5	85.9	90.6	93.9	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 100	50.9	59.2	63.5	85.9	90.6	93.9	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 0	50.9	59.2	63.5	85.9	90.6	93.9	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4

TOTAL NUMBER OF OBSERVATIONS 277

DIRNAVCEANMET SMOS

NASA WEATHER CENTER WASHINGTON, D.C. 20546

CEILING VERSUS VISIBILITY

STATION

STATION NAME

13-10

YEARS

DEC

MONTH

21

NOVEMBER

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥ 20000	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
18000	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
16000	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
14000	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
12000	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
10000	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
9000	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
8000	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
7000	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
6000	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
5000	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
4500	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
4000	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
3500	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
3000	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
2500	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
2000	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
1800	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
1600	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
1400	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
1200	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
1000	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
900	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
800	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
700	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
600	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
500	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
400	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
300	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
200	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
100	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
0	57.7	37.7	41.3	46.4	56.0	56.3	57.5	57.5	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3

TOTAL NUMBER OF OBSERVATIONS

240

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT A HIEULT, NM

CEILING VERSUS VISIBILITY

STATION NAME: 73-00 YEARS: DEC SOUTH ALL HOUSE NO. 1

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING	1.2	43.3	4.0	52.3	57.4	58.3	59.1	54.6	59.9	59.8	59.8	59.8	59.8	59.8	59.8	59.8
≥ 20000	1.8	45.3	51.1	54.3	62.5	63.5	64.6	65.1	65.3	65.4	65.4	65.4	65.4	65.4	65.4	65.4
18000	2.4	45.8	51.1	54.3	6.0	63.5	64.5	65.2	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
16000	2.4	45.8	51.1	54.4	62.6	63.5	64.7	65.3	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6
14000	4.0	46.1	51.2	54.7	63.1	64.1	65.2	65.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
12000	4.2	47.0	53.4	56.9	65.8	66.4	68.1	68.8	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
10000	4.4	50.3	55.5	59.7	69.4	71.5	72.5	73.3	73.5	73.6	73.6	73.6	73.6	73.6	73.6	73.6
9000	4.7	50.5	56.3	60.1	70.0	71.5	73.3	74.1	74.7	74.4	74.4	74.4	74.4	74.4	74.4	74.4
8000	4.9	54.0	60.2	64.2	74.6	76.3	78.1	79.3	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4
7000	5.2	54.4	60.7	64.7	75.3	76.9	78.8	79.8	80.0	80.2	80.2	80.2	80.2	80.2	80.2	80.2
6000	5.1	55.3	61.5	65.6	76.7	78.0	80.0	81.0	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4
5000	5.3	57.5	64.3	68.5	79.5	81.4	83.7	84.7	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0
4500	4.7	56.6	64.2	71.7	83.8	84.8	87.3	88.5	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8
4000	5.2	61.2	68.1	73.3	85.9	86.1	90.9	92.2	92.4	92.5	92.6	92.6	92.6	92.6	92.6	92.6
3500	6.7	61.7	69.9	74.0	87.3	89.7	92.4	94.3	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4
3000	6.4	62.5	69.6	74.7	88.7	91.2	94.3	95.8	96.1	96.2	96.3	96.3	96.3	96.3	96.3	96.3
2500	6.7	62.6	70.5	75.1	89.3	91.9	94.7	96.5	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1
2000	6.7	63.1	70.2	75.4	89.8	92.4	95.3	97.2	97.5	97.7	97.8	97.9	97.9	97.9	97.9	97.9
1800	6.7	63.1	70.3	75.4	89.8	92.6	95.5	97.4	97.7	97.9	98.0	98.1	98.1	98.1	98.1	98.1
1500	6.1	63.2	70.4	75.6	90.7	93.0	95.9	97.7	98.1	98.4	98.5	98.6	98.6	98.6	98.6	98.6
1200	6.3	63.5	70.7	75.8	90.6	93.4	96.3	98.3	98.7	99.1	99.2	99.3	99.3	99.3	99.3	99.3
1000	6.3	63.5	70.7	75.8	90.7	93.6	96.5	98.5	99.0	99.3	99.4	99.5	99.5	99.6	99.6	99.6
900	6.3	63.5	70.7	75.8	90.7	93.6	96.5	98.5	99.0	99.3	99.4	99.5	99.5	99.6	99.6	99.6
800	6.3	63.5	70.7	75.8	90.7	93.6	96.5	98.6	99.0	99.4	99.5	99.6	99.6	99.6	99.7	99.7
700	6.3	63.5	70.7	75.8	90.7	93.6	96.5	98.6	99.0	99.4	99.5	99.6	99.6	99.7	99.7	99.7
600	6.3	63.5	70.7	75.8	90.7	93.6	96.5	98.6	99.0	99.4	99.5	99.6	99.6	99.7	99.7	99.7
500	6.3	63.5	70.7	75.8	90.8	93.7	96.6	98.7	99.2	99.5	99.6	99.8	99.8	99.8	99.8	99.8
400	6.3	63.5	70.7	75.8	90.8	93.8	96.6	98.8	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0
300	6.3	63.5	70.7	75.8	90.8	93.8	96.6	98.8	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0
200	6.3	63.5	70.7	75.8	90.8	93.8	96.6	98.8	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0
100	6.3	63.5	70.7	75.8	90.8	93.8	96.6	98.8	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0
0	6.3	63.5	70.7	75.8	90.8	93.8	96.6	98.8	99.2	99.7	99.8	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 1904

DIRNAVUCEANMET SMOS

NAVAL WEATHER SERVICE - WASHINGTON, D.C. 20360

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

ALL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 0
NO CEILING	1.1	14.1	37.1	71.5	74.4	74.9	75.3	75.6	75.6	75.8	75.9	75.9	75.9	75.9	75.9	75.9
≥ 20000	1.1	14.1	36.7	70.6	72.6	72.6	73.2	73.9	74.3	74.5	74.6	74.7	74.7	74.7	74.7	74.7
≥ 18000	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 16000	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 14000	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 12000	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 10000	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 9000	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 8000	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 7000	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 6000	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 5000	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4500	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4000	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 3500	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 3000	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 2500	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 2000	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 1800	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 1500	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 1200	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 1000	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 900	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 800	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 700	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 600	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 500	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 400	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 300	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 200	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 100	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8
≥ 0	1.1	14.2	36.7	70.7	72.7	73.3	73.7	74.4	74.6	74.7	74.8	74.8	74.8	74.8	74.8	74.8

TOTAL NUMBER OF OBSERVATIONS 24185

DIRNAVOCEANMET SMOS

U. S. DEPARTMENT OF COMMERCE
BUREAU OF MARINE SERVICE

PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
 - a. Daily maximum temperature
 - b. Daily minimum temperature
 - c. Daily mean temperature
2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
 - a. Extreme maximum temperature
 - b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:
 - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total number of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ($\sum X^2$), sums of values ($\sum X$), means (\bar{X}), and standard deviations (σx). The number of observations used in the computations for each element is also shown.

c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Mean and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

- a. Dry-bulb temperature
- b. Wet-bulb temperature
- c. Dew-point temperature

5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.

b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

6. Hourly frequency of occurrence of in-situ temperature versus wind direction - This tabulation of hourly observations and is presented by month and annual, all years combined. The data are arranged in the summary in columns of in-situ temperatures spread vertically, in four degree intervals, and horizontally, by wind directions (16's each).

DAILY TEMPERATURES

STATION

ATSUBO, JAPAN
STATION NAME

61-63, 66-71
YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP. °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
100								.4					.4
95							.3	3.8	.2				.4
90						.7	14.2	30.2	5.5				.1
85					.4	9.6	46.7	69.3	25.1	.4			12.5
80				.6	9.1	37.2	71.7	87.5	53.7	3.6			21.7
75		.4	.2	6.7	36.2	68.9	92.6	97.2	78.4	24.5	2.4		33.9
70		.8	2.9	26.0	69.9	87.4	98.1	99.1	92.5	54.3	12.9	.4	45.2
65	1.1	3.5	14.9	52.1	90.0	96.1	99.8	100.0	98.2	74.6	37.1	5.3	55.9
60	4.7	12.0	32.9	78.7	96.8	99.1	100.0		100.0	92.6	60.4	21.1	66.4
55	19.2	27.2	58.5	92.9	99.6	100.0				99.6	83.3	47.6	77.2
50	43.9	54.5	77.4	98.7	100.0					100.0	95.7	77.6	87.6
45	84.6	82.3	93.0	99.8							99.4	95.3	96.2
40	97.8	95.3	98.7	100.0							100.0	99.4	99.3
35	99.6	99.6	99.8									100.0	99.9
30	100.0	100.0	100.0										100.0
25													
20													
15													
10													
5													
0													
MEAN	46.7	52.4	55.9	64.4	72.1	76.9	83.1	88.3	79.7	69.5	61.5	54.3	67.1
S.D.	5.667	7.009	7.666	6.854	5.869	6.231	6.002	5.451	6.594	6.465	6.984	6.087	13.20
TOTAL OBS	68	88	557	579	558	540	527	527	513	527	513	527	6748

NAVWEASERVCOM

DAILY TEMPERATURES

ASOJ, JAPAN

11-13, 66-71 YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM DAILY OBSERVATIONS

MINIMUM

TEMP. °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
75						4	13.0	26.6	4.1				7.7
70					2	6.1	61.3	76.5	24.1	2			13.2
65					1.5	30.7	90.5	97.2	57.3	3.4			73.1
60				2.4	14.2	72.0	98.7	100.0	84.7	16.9	2		32.1
55			1.3	12.2	52.0	83.3	100.0		96.0	49.3	4.1		42.3
50		.6	3.4	32.8	83.7	99.3			99.4	80.3	19.0	1.1	51.5
45	.4	2.0	10.6	56.6	96.6	100.0			100.0	94.3	46.9	4.9	59.2
40	3.4	8.5	32.9	84.0	99.8					98.3	74.9	19.0	68.2
35	14.5	21.9	56.4	95.9	100.0					100.0	89.8	40.8	76.5
30	41.4	51.0	84.9	99.8							97.5	70.0	87.0
25	72.0	79.7	96.8	100.0							59.8	91.5	94.9
20	92.5	94.3	99.6								100.0	59.6	98.8
15	95.2	100.0	100.0									100.0	99.8
10	99.8												100.0
5	100.0												100.0
MEAN	28.1	22.9	76.3	46.2	54.4	62.1	70.1	71.9	65.9	54.1	43.6	33.2	49.6
S D	8.173	6.590	6.851	6.781	5.065	4.816	4.056	3.491	5.409	5.892	6.814	6.535	16.092
TOTAL OBS	250	578	557	539	558	540	527	527	517	527	510	527	6388

NAVWEASERVCOM

DAILY TEMPERATURES

STATION

ATCUGI, JAPAN
STATION NAME

51-63, 66-71
YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MEAN

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
50							1.7	4.6	.2				.5
55						1.1	32.3	59.1	11.6				9.5
60					.4	15.0	69.4	87.9	39.8	.8			17.5
65				.6	7.2	55.0	93.5	98.1	72.2	5.5			27.3
70			.2	7.6	42.8	86.3	98.9	99.6	92.5	33.0	2.2		38.3
75			2.0	20.5	81.9	97.4	100.0	100.0	99.8	68.1	13.1	.6	49.0
80	.4	2.0	11.3	57.0	97.5	100.0			100.0	93.9	39.2	3.6	58.6
85	2.1	7.1	30.9	86.3	100.0					99.8	73.5	15.2	67.8
90	11.5	20.1	61.0	97.6						100.0	90.0	42.5	76.8
95	42.8	50.0	85.3	99.6							99.2	78.0	87.8
100	86.2	89.4	98.4	100.0							99.8	97.7	97.6
105	98.4	99.6	100.0								100.0	100.0	99.8
110	100.0	100.0											100.0
115													
120													
125													
130													
135													
140													
145													
150													
155													
160													
165													
170													
175													
180													
185													
190													
195													
200													
MEAN	30.2	40.6	46.4	55.9	63.4	69.8	76.8	79.4	72.8	62.0	52.4	44.0	58.6
S D	4.614	5.503	6.261	5.877	4.389	4.714	4.691	3.962	5.366	4.987	5.903	5.392	10.567
TOTAL OBS	55	508	557	579	558	540	527	527	517	527	517	527	6188

NAVWEASERVCOM

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MAXIMUM TEMPERATURE
FROM DAILY OBSERVATIONS

STATION ASHEVILLE, N. CAR. STATION NAME 1-63, 66-71 YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
1			71	73	82	89	94	97	89	91	72	66	
2	64	53	66	79	92	88	91	96	92	84	76	52	66
3	68	67			93	87	92	102	92	79	78	62	
4	63	73	72	77	79	81	89	98	91	76	73	74	98
5	59	68	71	77	78	92	93	92	89	81	70	65	91
6	67	65	69	79	81	90	91	100	90	77	72	64	100
7	66	56	70	74	79	84	92	94	83	76	71	71	94
8	60	67	68	78	83	88	88	93	91	80	74	64	93
9	64	75	69	78	82	81	92	93	91	80	74	67	93
10	69	67	71	74	78	86	89	91	93	80	74	66	93
11	59	58	72	76	83	86	97	94	95	83	70	66	97
12	52	77	68	76	84	85	93	96	92	83	79	64	96
13	56	60											
14	67	69	74	78	81	89	93	96	93	79	79	60	96
15	64	64	75	77	87	89	94	96	90	79	77	63	96
16	61	59	73	75	82	86	92	93	98	98	75	69	93
17	75	67	72	83	86	83	96	93	92	79	76	68	96
18	59	65	64	77	82	87	93	93	93	81	71	65	93
19	62	63	70	81	84	90							
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
MEAN	62.6	65.2	70.2	77.5	82.0	86.7	92.3	95.1	90.8	80.4	74.2	66.0	93.1
S.D.	4.654	6.364	2.796	2.294	3.471	3.064	2.134	2.034	2.675	2.934	2.984	3.371	2.200
TOTAL OBS.	558	508	527	510	551	500	627	527	510	527	510	527	6329

SMOS

EXTREME VALUES

STATION	STATION NAME	YEARS
31	ATSUGI, JAPAN	61-63, 66-71

[illegible]

SMOS

EXTREME VALUES

310	OSUFI, JAPAN
STATION	STATION NAME

61-63, 66-71

YEARS

INCHES DEGREES FAHRENHEIT

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
51			21	13	42	47	58	66	49	44	27	27	
52	21	19	24	20	44	52	63	68	55	46	36	22	19
53	16	17			36	55	59	60	57	48	38	27	
54	14	21	27	17	44	52	59	68	59	43	38	28	14
55	23	22	28	29	43	55	70	64	55	48	35	23	22
56	19	25	26	13	42	57	63	61	57	45	34	24	19
57	21	25	23	11	45	51	63	67	55	39	39	26	21
58	22	27	24	13	40	52	63	65	55	43	34	29	22
59	17	25	11	38	47	53	66	65	60	46	37	26	17
60	22	25	28	36	42	53	66	63	51	46	30	28	22
61	20	16	27	30	49	53	67	66	59	51	32	25	16
62	17	20	25	32	44	49	61	66	48	40	25	25	17
63	9	19											
64	15	19	23	40	42	46	57	66	51	42	26	16	15
65	12	17	21	34	46	51	64	65	57	40	30	17	12
66	18	16	22	36	42	58	64	68	57	41	29	23	16
67	16	20	22	32	46	49	59	65	56	37	26	20	16
68	14	16	19	36	47	54	60	65	54	36	24	20	14
69	20	19	18	35	48	57							
70													
71													
72													
73													
74													
75													
76													
77													
78													
79													
80													
81													
82													
83													
84													
85													
86													
87													
88													
89													
90													
91													
92													
93													
94													
95													
96													
97													
98													
99													
100													
MEAN	17.7	20.4	24.6	33.8	43.8	52.4	62.5	65.2	55.0	43.2	31.3	24.1	17.5
S D	3.416	3.601	3.519	3.067	3.144	3.329	3.555	2.243	3.464	4.101	4.780	3.960	3.226
TOTAL OBS	550	508	527	515	451	560	527	527	510	527	510	527	6324

SMOS

EXTREME VALUES

STATION	ATSUGI, JAPAN
STATION NAME	

51-63, 66-71

YEARS

[illegible]

SMOS

12

YEARS

PAGE 1
HOURS 11 57

[illegible]

Notes

HOURS 11.5

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

STATION

STATION NAME

YEARS

NOTE

455

HOURS : 5 1

NAVWEASERVCOM

2

NORTH

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
			PAGE :
			HOURS : L S T

[illegible]

PSYCHROMETRIC SUMMARY

STATION

STATION NAME

YEARS

MONTH

DATE

HOURS (L.S.T.)

Temp F	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	DB - WB	Dry Bulb	Wet Bulb	Dew Point
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TOTAL																																				
DB - WB																																				
Dry Bulb																																				
Wet Bulb																																				
Dew Point																																				

Element (X)	$\sum X^2$	$\sum X$	\bar{X}	σ_X	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	465686	12693	49.7	20.76	2126	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	77234	101422	47.7	7.897	2126		15.0	8.0	1.0			744.0
Wet Bulb	27777	82167	41.5	6.894	2126		63.0	.3				744.0
Dew Point	19406	69800	32.8	10.352	2126		341.9					744.0

NAVWEASERVCOM

Element (X)	Σx^2	Σx	\bar{x}	σ_x	No. Obs.	Mean No. of Hours with Temperature							Total
Rel. Hum.	465688	12698	49.7	20.26	2126	0 F	32 F	67 F	73 F	80 F	93 F		
Dry Bulb	76234	101422	47.7	7.897	2126		15.0	8.0	1.0				748.0
Wet Bulb	57777	82167	41.5	6.894	2126		63.0	.3					748.0
Dew Point	19406	69800	32.8	10.352	2126		341.9						748.0

PSYCHROMETRIC SUMMARY

STATION NAME

YEARS

34

MONTH

452

H2205 1 87

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH	DATE	HOURS (GMT)

Temp F	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	DB	WB	Dry Bulb	Wet Bulb	Dew Point																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	95	16.0	18.6	21.4	24.4	27.7	31.0	34.2	37.7	41.0	44.2	47.7	51.0	54.2	57.7	61.0	64.2	67.7	71.0	74.2	77.7	81.0	84.2	87.7	91.0	94.2	97.7	101.0	104.2	107.7	111.0	114.2	117.7	121.0	124.2	127.7	131.0	134.2	137.7	141.0	144.2	147.7	151.0	154.2	157.7	161.0	164.2	167.7	171.0	174.2	177.7	181.0	184.2	187.7	191.0	194.2	197.7	201.0	204.2	207.7	211.0	214.2	217.7	221.0	224.2	227.7	231.0	234.2	237.7	241.0	244.2	247.7	251.0	254.2	257.7	261.0	264.2	267.7	271.0	274.2	277.7	281.0	284.2	287.7	291.0	294.2	297.7	301.0	304.2	307.7	311.0	314.2	317.7	321.0	324.2	327.7	331.0	334.2	337.7	341.0	344.2	347.7	351.0	354.2	357.7	361.0	364.2	367.7	371.0	374.2	377.7	381.0	384.2	387.7	391.0	394.2	397.7	401.0	404.2	407.7	411.0	414.2	417.7	421.0	424.2	427.7	431.0	434.2	437.7	441.0	444.2	447.7	451.0	454.2	457.7	461.0	464.2	467.7	471.0	474.2	477.7	481.0	484.2	487.7	491.0	494.2	497.7	501.0	504.2	507.7	511.0	514.2	517.7	521.0	524.2	527.7	531.0	534.2	537.7	541.0	544.2	547.7	551.0	554.2	557.7	561.0	564.2	567.7	571.0	574.2	577.7	581.0	584.2	587.7	591.0	594.2	597.7	601.0	604.2	607.7	611.0	614.2	617.7	621.0	624.2	627.7	631.0	634.2	637.7	641.0	644.2	647.7	651.0	654.2	657.7	661.0	664.2	667.7	671.0	674.2	677.7	681.0	684.2	687.7	691.0	694.2	697.7	701.0	704.2	707.7	711.0	714.2	717.7	721.0	724.2	727.7	731.0	734.2	737.7	741.0	744.2	747.7	751.0	754.2	757.7	761.0	764.2	767.7	771.0	774.2	777.7	781.0	784.2	787.7	791.0	794.2	797.7	801.0	804.2	807.7	811.0	814.2	817.7	821.0	824.2	827.7	831.0	834.2	837.7	841.0	844.2	847.7	851.0	854.2	857.7	861.0	864.2	867.7	871.0	874.2	877.7	881.0	884.2	887.7	891.0	894.2	897.7	901.0	904.2	907.7	911.0	914.2	917.7	921.0	924.2	927.7	931.0	934.2	937.7	941.0	944.2	947.7	951.0	954.2	957.7	961.0	964.2	967.7	971.0	974.2	977.7	981.0	984.2	987.7	991.0	994.2	997.7	1001.0	1004.2	1007.7	1011.0	1014.2	1017.7	1021.0	1024.2	1027.7	1031.0	1034.2	1037.7	1041.0	1044.2	1047.7	1051.0	1054.2	1057.7	1061.0	1064.2	1067.7	1071.0	1074.2	1077.7	1081.0	1084.2	1087.7	1091.0	1094.2	1097.7	1101.0	1104.2	1107.7	1111.0	1114.2	1117.7	1121.0	1124.2	1127.7	1131.0	1134.2	1137.7	1141.0	1144.2	1147.7	1151.0	1154.2	1157.7	1161.0	1164.2	1167.7	1171.0	1174.2	1177.7	1181.0	1184.2	1187.7	1191.0	1194.2	1197.7	1201.0	1204.2	1207.7	1211.0	1214.2	1217.7	1221.0	1224.2	1227.7	1231.0	1234.2	1237.7	1241.0	1244.2	1247.7	1251.0	1254.2	1257.7	1261.0	1264.2	1267.7	1271.0	1274.2	1277.7	1281.0	1284.2	1287.7	1291.0	1294.2	1297.7	1301.0	1304.2	1307.7	1311.0	1314.2	1317.7	1321.0	1324.2	1327.7	1331.0	1334.2	1337.7	1341.0	1344.2	1347.7	1351.0	1354.2	1357.7	1361.0	1364.2	1367.7	1371.0	1374.2	1377.7	1381.0	1384.2	1387.7	1391.0	1394.2	1397.7	1401.0	1404.2	1407.7	1411.0	1414.2	1417.7	1421.0	1424.2	1427.7	1431.0	1434.2	1437.7	1441.0	1444.2	1447.7	1451.0	1454.2	1457.7	1461.0	1464.2	1467.7	1471.0	1474.2	1477.7	1481.0	1484.2	1487.7	1491.0	1494.2	1497.7	1501.0	1504.2	1507.7	1511.0	1514.2	1517.7	1521.0	1524.2	1527.7	1531.0	1534.2	1537.7	1541.0	1544.2	1547.7	1551.0	1554.2	1557.7	1561.0	1564.2	1567.7	1571.0	1574.2	1577.7	1581.0	1584.2	1587.7	1591.0	1594.2	1597.7	1601.0	1604.2	1607.7	1611.0	1614.2	1617.7	1621.0	1624.2	1627.7	1631.0	1634.2	1637.7	1641.0	1644.2	1647.7	1651.0	1654.2	1657.7	1661.0	1664.2	1667.7	1671.0	1674.2	1677.7	1681.0	1684.2	1687.7	1691.0	1694.2	1697.7	1701.0	1704.2	1707.7	1711.0	1714.2	1717.7	1721.0	1724.2	1727.7	1731.0	1734.2	1737.7	1741.0	1744.2	1747.7	1751.0	1754.2	1757.7	1761.0	1764.2	1767.7	1771.0	1774.2	1777.7	1781.0	1784.2	1787.7	1791.0	1794.2	1797.7	1801.0	1804.2	1807.7	1811.0	1814.2	1817.7	1821.0	1824.2	1827.7	1831.0	1834.2	1837.7	1841.0	1844.2	1847.7	1851.0	1854.2	1857.7	1861.0	1864.2	1867.7	1871.0	1874.2	1877.7	1881.0	1884.2	1887.7	1891.0	1894.2	1897.7	1901.0	1904.2	1907.7	1911.0	1914.2	1917.7	1921.0	1924.2	1927.7	1931.0	1934.2	1937.7	1941.0	1944.2	1947.7	1951.0	1954.2	1957.7	1961.0	1964.2	1967.7	1971.0	1974.2	1977.7	1981.0	1984.2	1987.7	1991.0	1994.2	1997.7	2001.0	2004.2	2007.7	2011.0	2014.2	2017.7	2021.0	2024.2	2027.7	2031.0	2034.2	2037.7	2041.0	2044.2	2047.7	2051.0	2054.2	2057.7	2061.0	2064.2	2067.7	2071.0	2074.2	2077.7	2081.0	2084.2	2087.7	2091.0	2094.2	2097.7	2101.0	2104.2	2107.7	2111.0	2114.2	2117.7	2121.0	2124.2	2127.7	2131.0	2134.2	2137.7	2141.0	2144.2	2147.7	2151.0	2154.2	2157.7	2161.0	2164.2	2167.7	2171.0	2174.2	2177.7	2181.0	2184.2	2187.7	2191.0	2194.2	2197.7	2201.0	2204.2	2207.7	2211.0	2214.2	2217.7	2221.0	2224.2	2227.7	2231.0	2234.2	2237.7	2241.0	2244.2	2247.7	2251.0	2254.2	2257.7	2261.0	2264.2	2267.7	2271.0	2274.2	2277.7	2281.0	2284.2	2287.7	2291.0	2294.2	2297.7	2301.0	2304.2	2307.7	2311.0	2314.2	2317.7	2321.0	2324.2	2327.7	2331.0	2334.2	2337.7	2341.0	2344.2	2347.7	2351.0	2354.2	2357.7	2361.0	2364.2	2367.7	2371.0	2374.2	2377.7	2381.0	2384.2	2387.7	2391.0	2394.2	2397.7	2401.0	2404.2	2407.7	2411.0	2414.2	2417.7	2421.0	2424.2	2427.7	2431.0	2434.2	2437.7	2441.0	2444.2	2447.7	2451.0	2454.2	2457.7	2461.0	2464.2	2467.7	2471.0	2474.2	2477.7	2481.0	2484.2	2487.7	2491.0	2494.2	2497.7	2501.0	2504.2	2507.7	2511.0	2514.2	2517.7	2521.0	2524.2	2527.7	2531.0	2534.2	2537.7	2541.0	2544.2	2547.7	2551.0	2554.2	2557.7	2561.0	2564.2	2567.7	2571.0	2574.2	2577.7	2581.0	2584.2	2587.7	2591.0	2594.2	2597.7	2601.0	2604.2	2607.7	2611.0	2614.2	2617.7	2621.0	2624.2	2627.7	2631.0	2634.2	2637.7	2641.0	2644.2	2647.7	2651.0	2654.2	2657.7	2661.0	2664.2	2667.7	2671.0	2674.2	2677.7	2681.0	2684.2	2687.7	2691.0	2694.2	2697.7	2701.0	2704.2	2707.7	2711.0	2714.2	2717.7	2721.0	2724.2	2727.7	2731.0	2734.2	2737.7	2741.0	2744.2	2747.7	2751.0	2754.2	2757.7	2761.0	2764.2	2767.7	2771.0	2774.2	2777.7	2781.0	2784.2	2787.7	2791.0	2794.2	2797.7	2801.0	2804.2	2807.7	2811.0	2814.2	2817.7	2821.0	2824.2	2827.7	2831.0	2834.2	2837.7	2841.0	2844.2	2847.7	2851.0	2854.2	2857.7	2861.0	2864.2	2867.7	2871.0	2874.2	2877.7	2881.0	2884.2	2887.7	2891.0	2894.2	2897.7	2901.0	2904.2	2907.7	2911.0	2914.2	2917.7	2921.0	2924.2	2927.7	2931.0	2934.2	2937.7	2941.0	2944.2	2947.7	2951.0	2954.2	2957.7	2961.0	2964.2	2967.7	2971.0	2974.2	2977.7	2981.0	2984.2	2987.7	2991.0	2994.2	2997.7	3001.0	3004.2	3007.7	3011.0	3014.2	3017.7	3021.0	3024.2	3027.7	3031.0	3034.2	3037.7	3041.0	3044.2	3047.7	3051.0	3054.2	3057.7	3061.0	3064.2	3067.7	3071.0	3074.2	3077.7	3081.0	3084.2	3087.7	3091.0	3094.2	3097.7	3101.0	3104.2	3107.7	3111.0	3114.2	3117.7	3121.0	3124.2	3127.7	3131.0	3134.2	3137.7	3141.0	3144.2	3147.7	3151.0	3154.2	3157.7	3161.0	3164.2	3167.7	3171.0	3174.2	3177.7	3181.0	3184.2	3187.7	3191.0	3194.2	3197.7	3201.0	3204.2	3207.7	3211.0	3214.2	3217.7	3221.0	3224.2	3227.7	3231.0	3234.2	3237.7	3241.0	3244.2	3247.7	3251.0	3254.2	3257.7	3261.0	3264.2	3267.7	3271.0	3274.2	3277.7	3281.0	3284.2	3287.7	3291.0	3294.2	3297.7	3301.0	3304.2	3307.7	3311.0	3314.2	3317.7	3321.0	3324.2	3327.7	3331.0	3334.2	3337.7	3341.0	3344.2	3347.7	3351.0	3354.2	3357.7	3361.0	3364.2	3367.7	3371.0	3374.2	3377.7	3381.0	3384.2	3387.7	3391.0	3394.2	3397.7	3401.0	3404.2	3407.7	3411.0	3414.2	3417.7	3421.0	3424.2	3427.7	3431.0	3434.2	3437.7	3441.0	3444.2	3447.7	3451.0	3454.2	3457.7	3461.0	3464.2	3467.7	3471.0	3474.2	3477.7	3481.0	3484.2	3487.7	3491.0	3494.2	3497.7	3501.0	3504.2	3507.7	3511.0	3514.2	3517.7	3521.0	3524.2	3527.7	3531.0	3534.2	3537.7	3541.0	3544.2	3547.7	3551.0	3554.2	3557.7	3561.0	3564.2	3567.7	3571.0	3574.2	3577.7	3581.0	3584.2	3587.7	3591.0	3594.2	3597.7	3601.0	3604.2	3607.7	3611.0	3614.2	3617.7	3621.0	3624.2	3627.7	3631.0	3634.2	3637.7	3641.0	3644.2	3647.7	3651.0	3654.2	3657.7	3661.0	3664.2	3667.7	3671.0	3674.2	3677.7	3681.0	3684.2	3687.7	3691.0	3694.2	3697.7	3701.0	3704.2	3707.7	3711.0	3714.2	3717.7	3721.0	3724.2	3727.7	3731.0	3734.2	3737.7	3741.0	3744.2	3747.7	3751.0	3754.2	3757.7	3761.0	3764.2

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Temp		WET BULB TEMPERATURE DEPRESSION F																															TOTAL		TOTAL			
F		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	DR	W.B.	DR	W.B.	
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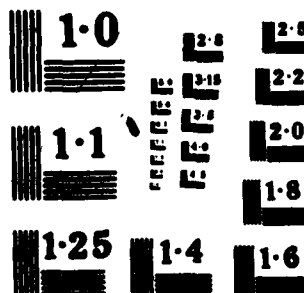
SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
FOR ATSUGI JAPAN(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC MAR 85

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PSYCHROMETRIC SUMMARY

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PSYCHROMETRIC SUMMARY

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PSYCHROMETRIC SUMMARY

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PSYCHROMETRIC SUMMARY

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PSYCHROMETRIC SUMMARY

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YEARS

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PSYCHROMETRIC SUMMARY

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PSYCHROMETRIC SUMMARY

MONTH

WOLFE, S. J.

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MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

31° ATSUGI, JAPAN

73-82

STATION		STATION NAME												YEARS	
MRS. LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
0	MEAN	34.6	37.4	44.8	53.4	61.5	68.7	73.8	75.9	70.2	60.8	51.9	42.8	56.5	
	S. D.	5.315	5.771	6.341	6.392	4.910	4.767	4.493	4.132	4.924	5.429	6.731	5.921	14.323	
	TOTAL OBS	178	162	175	176	182	181	181	180	178	214	209	213	2229	
	MEAN	35.7	36.8	43.4	52.5	60.5	68.5	73.7	75.8	69.8	60.5	51.3	41.9	55.9	
	S. D.	5.278	6.334	6.390	6.490	5.255	4.906	4.406	4.098	4.987	5.470	6.887	5.822	14.633	
	TOTAL OBS	179	159	176	175	183	183	177	179	176	210	206	210	2213	
	MEAN	33.4	34.6	47.0	50.1	58.5	66.6	71.8	74.0	67.6	57.7	48.2	38.4	53.5	
	S. D.	5.624	6.492	6.659	6.860	5.369	4.660	4.815	4.038	5.070	5.509	7.277	6.268	15.173	
	TOTAL OBS	236	270	299	283	296	270	298	294	288	298	291	294	3467	
	MEAN	39.4	41.3	47.1	58.0	66.9	72.3	78.2	80.8	74.0	64.7	54.5	44.6	60.2	
	S. D.	4.446	5.624	6.007	6.771	5.551	5.552	5.896	5.161	6.079	5.399	6.123	5.160	15.204	
	TOTAL OBS	288	265	293	280	288	269	288	286	288	289	285	295	3414	
1	MEAN	46.7	46.8	52.1	61.7	70.1	75.1	81.0	84.1	76.9	68.6	59.8	51.8	64.7	
	S. D.	5.557	5.697	7.017	7.266	6.329	6.164	6.752	5.802	7.135	6.395	6.783	5.826	14.255	
	TOTAL OBS	296	288	296	282	289	283	294	302	289	301	296	299	3495	
	MEAN	49.0	49.3	54.3	63.0	71.3	76.2	82.0	85.0	78.7	70.2	61.6	53.9	66.3	
	S. D.	5.714	6.334	7.157	7.206	5.986	5.809	6.309	5.481	6.956	6.270	6.783	5.946	13.825	
	TOTAL OBS	296	268	288	283	287	288	293	296	289	294	288	298	3468	
1	MEAN	42.8	44.4	49.9	59.0	66.8	72.3	77.6	80.2	73.9	65.0	55.9	47.4	61.3	
	S. D.	4.773	5.851	6.398	6.321	5.145	4.935	5.001	4.454	5.479	5.121	5.983	5.644	13.798	
	TOTAL OBS	297	275	299	285	298	287	298	296	293	303	295	303	3529	
1	MEAN	39.8	41.7	47.4	57.0	64.3	70.7	75.7	78.3	72.5	63.1	53.7	45.0	59.3	
	S. D.	5.075	5.974	6.081	6.047	4.588	4.520	4.548	3.869	5.128	5.064	6.377	5.860	14.040	
	TOTAL OBS	286	268	300	285	301	292	297	299	287	302	295	286	3495	
ALL HOURS	MEAN	41.0	42.0	47.7	57.2	65.4	71.6	77.0	79.6	73.3	64.1	54.9	46.0	60.1	
	S. D.	7.298	7.686	7.898	7.931	6.932	6.089	6.413	6.038	6.827	6.868	7.831	7.590	14.985	
	TOTAL OBS	2106	1932	2126	2049	2126	2053	2126	2132	2088	2211	2165	2198	25310	

MEANS AND STANDARD DEVIATIONS

-ET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

47319 ATSUGI, JAPAN

73-82

STATION		STATION NAME												YEARS	
HRS (LST)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
0	MEAN	32.1	32.9	40.3	48.8	57.6	65.5	70.7	72.4	66.7	57.0	47.8	38.3	52.5	
	S. D.	5.299	5.958	6.656	6.949	5.605	4.641	4.173	3.709	5.096	5.900	7.210	5.858	14.853	
	TOTAL OBS	178	162	175	176	182	181	181	180	178	213	209	213	2228	
0	MEAN	31.5	32.7	39.3	48.3	57.3	65.6	71.2	72.8	66.9	57.0	47.7	37.7	52.3	
	S. D.	5.235	6.507	6.585	7.169	5.730	4.855	4.318	3.830	5.164	6.216	7.223	5.919	15.210	
	TOTAL OBS	179	159	176	175	183	183	177	179	176	210	206	210	2213	
0	MEAN	29.7	31.1	36.4	46.6	55.1	64.0	69.4	71.3	64.9	54.6	45.1	34.7	50.3	
	S. D.	5.457	6.856	6.916	7.347	5.911	4.783	4.589	3.774	5.254	6.016	7.604	6.009	15.647	
	TOTAL OBS	266	269	299	283	296	270	298	299	288	298	291	293	3465	
0	MEAN	33.7	35.6	40.7	51.1	59.5	66.9	72.5	74.3	68.0	58.3	48.8	38.9	54.0	
	S. D.	4.723	6.315	6.311	6.854	5.394	4.606	4.524	3.731	5.334	5.662	6.786	5.312	15.072	
	TOTAL OBS	268	264	293	280	287	269	288	286	288	288	285	295	3411	
1	MEAN	37.5	38.2	43.1	52.9	60.3	67.5	72.9	74.7	68.4	59.6	50.9	42.4	55.8	
	S. D.	5.341	5.599	6.020	6.452	5.174	4.565	4.614	3.577	5.162	5.451	6.407	5.342	13.965	
	TOTAL OBS	296	268	296	281	289	283	294	302	288	301	295	299	3492	
1	MEAN	39.6	40.5	45.4	54.5	61.7	68.6	74.1	75.9	69.9	60.9	52.5	44.2	57.4	
	S. D.	5.340	5.716	6.023	6.227	5.007	4.245	4.478	3.412	5.112	5.302	6.408	5.427	13.598	
	TOTAL OBS	296	268	288	283	287	288	293	295	289	294	288	298	3467	
1	MEAN	36.2	37.9	43.3	52.6	59.9	66.9	72.3	74.1	68.2	59.1	49.7	40.8	55.1	
	S. D.	5.070	6.045	6.070	6.211	4.869	4.031	4.123	3.232	4.927	5.357	6.668	5.870	14.056	
	TOTAL OBS	297	273	299	285	298	287	298	296	293	303	295	303	3527	
1	MEAN	34.3	36.6	42.1	52.0	59.7	67.0	72.3	74.1	68.3	58.7	48.9	39.8	54.7	
	S. D.	5.348	6.569	6.450	6.528	5.194	4.033	4.177	3.413	5.061	5.692	7.116	6.080	14.656	
	TOTAL OBS	286	265	300	285	301	292	297	299	287	302	295	286	3495	
ALL HOURS	MEAN	34.7	36.0	41.5	51.1	59.0	66.6	72.0	73.8	67.7	58.2	49.0	39.7	54.2	
	S. D.	6.081	6.888	6.895	7.148	5.695	4.634	4.591	3.818	5.325	5.962	7.229	6.369	14.757	
	TOTAL OBS	2106	1928	2126	2098	2123	2053	2126	2131	2087	2289	2169	2197	25298	

NAVWEASERVCOM

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

4310 A-SUGI, JAPAN

73-82

STATION

STATION NAME

YEARS

HRS LST		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
0	MEAN	23.0	24.7	33.9	43.8	54.4	63.5	69.1	70.8	64.7	53.9	47.4	31.6	48.2
	S.D.	4.354	9.197	9.811	9.964	7.635	5.301	4.484	4.161	5.892	7.457	9.627	8.248	17.835
	TOTAL OBS	178	162	175	176	182	181	181	180	178	213	209	213	2228
	MEAN	23.5	25.2	33.4	43.4	54.6	63.7	69.8	71.2	65.0	54.0	43.6	31.4	48.3
	S.D.	4.145	9.474	9.230	10.260	7.264	5.654	4.554	4.183	5.894	7.860	9.369	8.435	18.032
	TOTAL OBS	179	159	176	175	183	183	177	179	176	210	206	210	2213
	MEAN	21.0	24.0	30.5	42.5	52.1	62.4	69.1	69.9	63.2	51.8	41.3	28.4	46.5
	S.D.	9.281	10.193	9.774	9.710	7.755	5.477	4.854	4.003	5.923	7.520	9.510	8.251	18.405
	TOTAL OBS	206	269	299	283	296	270	298	294	288	298	291	293	3465
	MEAN	23.6	25.8	31.2	43.7	53.6	63.6	69.7	71.3	64.6	53.1	42.4	30.3	47.8
	S.D.	4.555	10.726	10.894	10.609	8.147	5.620	4.806	4.117	6.401	8.022	9.917	8.346	18.597
	TOTAL OBS	288	264	293	280	287	269	288	286	288	288	285	295	3411
1	MEAN	22.3	24.0	30.7	44.2	52.8	63.0	69.0	70.4	63.6	52.5	41.5	29.4	47.1
	S.D.	10.611	11.338	10.984	10.575	8.357	5.632	4.924	4.350	6.396	8.496	10.337	9.720	18.935
	TOTAL OBS	296	268	296	281	289	283	294	302	288	301	295	299	3492
	MEAN	25.0	27.3	34.2	46.6	54.6	64.3	70.3	71.8	65.0	53.9	43.2	31.4	49.1
	S.D.	10.381	11.049	10.279	9.746	7.982	5.251	4.913	4.156	6.351	8.183	10.290	9.982	18.286
	TOTAL OBS	296	268	288	283	287	288	293	295	289	294	288	298	3467
	MEAN	25.0	27.4	34.6	46.4	54.6	63.8	69.7	71.2	64.9	54.4	42.9	31.6	48.9
	S.D.	9.421	10.714	9.930	9.720	7.318	4.787	4.659	3.900	6.066	7.704	10.086	9.615	17.892
	TOTAL OBS	297	273	299	285	298	287	298	296	293	303	295	303	3527
1	MEAN	24.9	28.2	34.9	47.0	55.9	64.8	70.7	72.2	65.8	55.2	43.7	32.5	49.9
	S.D.	8.779	10.650	10.169	9.710	7.448	4.675	4.598	3.978	5.914	7.618	10.025	8.830	17.963
	TOTAL OBS	284	265	300	285	301	292	297	299	287	302	295	286	3495
ALL HOURS	MEAN	23.8	25.9	32.8	44.8	54.1	63.7	69.6	71.1	64.6	53.6	42.7	30.8	48.2
	S.D.	9.268	10.656	10.353	10.146	7.846	5.328	4.804	4.159	6.172	7.937	9.955	9.088	18.307
	TOTAL OBS	2106	1928	2126	2048	2123	2053	2126	2131	2087	2209	2164	2197	25298

NAVWEASERVCOM

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JAN

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NAVAL WEATHER SERVICE DETACHMENT
AVHENTILLE NORTH CAROLINA

RELATIVE HUMIDITY

47319 ATSUGI, JAPAN

73-82

FEB

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	00	100.0	100.0	100.0	93.8	73.4	48.1	24.1	16.7	9.3	61.7	162
	03	100.0	100.0	99.4	96.2	81.8	59.1	26.4	17.6	5.0	64.2	159
	06	100.0	100.0	99.6	95.5	84.8	61.0	34.2	21.9	12.3	66.6	269
	09	100.0	99.6	95.1	80.7	54.2	33.3	19.3	14.8	7.2	56.3	264
	12	100.0	95.9	69.8	42.9	25.4	19.8	14.6	9.3	4.9	44.2	268
	15	100.0	95.9	78.7	54.1	26.5	20.5	16.3	10.4	4.9	46.1	268
	18	100.0	99.6	92.7	70.0	50.5	30.0	19.8	13.9	6.6	53.9	273
	21	100.0	100.0	99.6	83.8	61.5	47.2	32.1	17.0	9.8	61.0	265
TOTALS		100.0	98.9	91.9	77.1	56.9	39.9	23.4	15.2	7.5	56.8	1928

OCEANAV-SMOS

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RELATIVE HUMIDITY

MAR

NOTES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00	100.0	100.0	100.0	92.5	80.6	62.9	42.9	28.6	13.7	67.4	175
	03	100.0	100.0	100.0	96.5	85.2	66.5	46.0	30.7	10.8	69.3	176
	06	100.0	100.0	99.7	97.3	86.0	73.2	50.5	31.1	13.4	70.4	299
	09	100.0	99.0	94.2	76.1	56.3	39.2	25.6	15.7	6.5	57.0	293
	12	100.0	95.6	77.4	54.7	37.5	22.6	16.6	10.1	6.1	47.7	296
	15	100.0	97.9	85.4	60.4	38.9	27.4	18.8	11.8	6.6	50.2	288
	18	100.0	100.0	94.6	79.3	60.9	42.5	27.1	16.7	7.4	58.4	299
	21	100.0	100.0	98.7	88.0	73.0	57.3	37.7	21.7	11.3	64.1	300
TOTALS		100.0	99.1	93.8	80.6	64.8	49.0	33.2	20.8	9.5	60.6	2126

OCEANAV-3MOS

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NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

47319 ATSUGI, JAPAN

73-82

APR

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	00	100.0	100.0	99.4	96.0	84.1	75.0	59.1	33.5	17.6	71.8	176
	03	100.0	100.0	99.4	95.4	87.4	76.6	61.1	36.6	17.7	72.9	175
	06	100.0	100.0	99.6	98.6	93.6	83.4	65.4	45.9	23.0	76.5	283
	09	100.0	99.6	94.3	83.6	68.6	51.8	35.0	21.8	8.2	61.9	280
	12	100.0	98.6	90.0	74.0	58.7	38.1	23.8	17.1	8.5	56.3	281
	15	100.0	99.3	92.2	79.5	62.2	43.5	28.3	17.3	8.5	58.4	283
	18	100.0	98.9	95.8	90.2	79.6	63.5	44.2	22.1	9.1	65.8	285
	21	100.0	100.0	98.6	93.3	84.9	74.4	60.4	34.7	12.6	71.2	285
TOTALS		100.0	99.6	96.2	88.8	77.4	63.3	47.2	28.6	12.2	66.9	2048

OCEANAV-SMOS

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MAY

MONTH

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RELATIVE HUMIDITY

JUN

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	00	100.0	100.0	100.0	100.0	99.4	98.3	92.3	64.1	26.5	83.7	181
	03	100.0	100.0	100.0	100.0	98.9	97.8	91.3	73.2	26.8	85.0	183
	06	100.0	100.0	100.0	100.0	100.0	98.5	94.4	76.7	38.9	86.5	270
	09	100.0	100.0	99.6	99.3	97.4	87.4	61.3	35.3	14.1	75.0	269
	12	100.0	100.0	99.6	98.2	89.8	64.3	38.9	19.8	5.7	67.3	283
	15	100.0	100.0	100.0	99.0	91.7	66.7	39.9	18.4	6.6	67.8	288
	18	100.0	100.0	100.0	100.0	97.9	89.5	66.6	34.1	11.8	75.4	287
	21	100.0	100.0	100.0	100.0	98.6	96.9	88.7	63.7	17.5	82.0	292
TOTALS		100.0	100.0	99.9	99.6	96.7	87.4	71.7	48.2	19.5	77.8	2053

OCEANAV-SMOS

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NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

43319 ATSUGI, JAPAN

73-82

JUL

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	00	100.0	100.0	100.0	100.0	99.4	98.9	97.8	76.2	29.3	85.5	181
	03	100.0	100.0	100.0	100.0	100.0	99.4	99.4	85.3	33.3	87.4	177
	06	100.0	100.0	100.0	100.0	100.0	99.3	98.3	88.3	37.6	88.2	298
	09	100.0	100.0	100.0	100.0	100.0	94.1	63.9	30.2	12.2	75.7	288
	12	100.0	100.0	100.0	99.7	94.6	72.4	32.0	18.4	7.1	67.9	294
	15	100.0	100.0	100.0	100.0	95.6	73.4	34.8	16.7	7.2	68.5	293
	18	100.0	100.0	100.0	100.0	99.3	93.3	75.2	33.6	10.7	77.0	298
	21	100.0	100.0	100.0	100.0	99.3	99.3	94.9	69.0	25.6	84.6	297
TOTALS		100.0	100.0	100.0	100.0	98.5	91.3	74.5	52.2	20.4	70.4	2126

OCEANAV-SMOS

RELATIVE HUMIDITY

AUG

MONTE

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00	100.0	100.0	100.0	100.0	98.9	97.2	95.6	68.9	21.7	84.3	180
	03	100.0	100.0	100.0	100.0	99.4	98.9	97.2	78.8	24.5	85.8	179
	06	100.0	100.0	100.0	100.0	100.0	99.7	98.6	83.0	29.3	86.9	294
	09	100.0	100.0	100.0	100.0	99.3	91.3	52.4	23.8	8.0	73.6	286
	12	100.0	100.0	100.0	98.0	90.4	54.3	26.2	16.6	7.0	64.5	302
	15	100.0	100.0	100.0	99.0	90.8	62.4	27.8	15.6	5.8	65.5	295
	18	100.0	100.0	99.7	99.7	99.0	89.2	63.2	28.4	9.1	74.6	296
	21	100.0	100.0	100.0	100.0	99.3	97.0	89.3	58.9	16.1	81.8	299
TOTALS		100.0	100.0	100.0	99.6	97.1	86.3	68.8	46.8	15.2	77.1	2131

OCEANAV-SMOS

2

NAVAL WEATHER SERVICE DETACHMENT
WHELETT, NORTH CAROLINA

RELATIVE HUMIDITY

47819 ATSUGI, JAPAN

73-82

SEP

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	01	100.0	100.0	100.0	100.0	100.0	97.8	91.0	62.4	27.0	82.9	178
	03	100.0	100.0	100.0	100.0	99.4	98.9	92.6	70.5	26.1	84.9	176
	06	100.0	100.0	100.0	100.0	99.7	99.3	96.9	78.8	29.2	86.0	288
	09	100.0	100.0	100.0	99.7	94.8	84.7	58.0	31.6	11.8	73.5	298
	12	100.0	100.0	99.7	96.2	83.0	56.6	32.3	20.8	9.7	65.4	298
	15	100.0	100.0	99.7	97.6	82.0	53.3	32.5	19.0	6.9	64.7	289
	18	100.0	100.0	100.0	99.3	96.6	84.3	63.1	33.1	12.3	74.5	293
	21	100.0	100.0	100.0	100.0	99.3	94.8	82.7	49.5	19.5	79.9	287
TOTALS		100.0	100.0	99.9	99.1	94.4	83.7	68.6	45.7	17.3	76.5	2087

OCEANAV-SMOS

2

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

43319 ATSUGI, JAPAN

73-R2

OCT

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	00	100.0	100.0	100.0	100.0	97.7	90.1	78.9	42.3	16.4	78.5	213
	03	100.0	100.0	100.0	100.0	98.1	92.9	81.4	47.1	20.0	79.9	210
	06	100.0	100.0	99.7	99.7	98.7	93.3	84.9	57.4	25.5	81.2	298
	09	100.0	100.0	100.0	96.9	87.5	67.7	36.8	20.5	10.1	67.4	298
	12	100.0	100.0	96.3	83.4	62.8	40.2	25.9	16.3	10.6	58.9	301
	15	100.0	99.7	97.3	83.7	64.6	38.8	24.8	13.9	7.1	58.7	294
	18	100.0	100.0	99.7	97.7	88.8	74.6	47.0	25.4	11.9	70.0	303
	21	100.0	100.0	100.0	100.0	94.7	85.8	72.5	36.8	16.2	76.1	302
TOTALS		100.0	100.0	99.1	95.2	86.6	72.9	56.6	32.5	14.7	71.3	2209

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

47310 ATSUJI, JAPAN

73-32

NOV

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	00	100.0	100.0	100.0	99.5	92.6	78.9	64.1	34.0	15.8	73.8	209
	03	100.0	100.0	100.0	99.0	93.2	85.4	70.4	42.7	17.5	76.0	206
	06	100.0	100.0	100.0	99.7	95.2	88.0	70.9	46.4	20.3	77.7	291
	09	100.0	100.0	100.0	93.0	78.2	58.6	40.0	18.6	17.9	65.4	265
	12	100.0	99.7	93.6	71.9	48.8	28.5	19.0	12.5	7.8	53.6	295
	15	100.0	99.3	94.4	71.9	49.7	27.1	18.4	13.5	6.9	53.7	288
	18	100.0	100.0	98.6	90.5	75.9	57.6	34.6	18.3	7.1	63.7	295
	21	100.0	100.0	100.0	97.6	86.1	71.9	54.6	29.5	11.5	70.3	295
TOTALS		100.0	99.8	98.3	90.4	77.5	62.0	46.5	26.9	12.2	66.8	2164

OCEANAV-SMOS

RELATIVE HUMIDITY

13-82

DEC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	20	100.0	100.0	100.0	97.2	85.9	62.4	35.7	13.6	3.3	55.5	213
	27	100.0	100.0	99.0	97.1	86.2	69.5	41.0	17.6	3.8	67.3	210
	26	100.0	100.0	99.3	96.9	88.1	72.7	40.3	22.2	5.8	68.4	293
	7 ^a	100.0	100.0	98.6	87.8	71.2	42.0	18.6	8.5	2.4	58.6	295
	12	100.0	97.3	83.3	53.8	27.8	13.0	8.0	5.0	2.7	44.6	299
	15	100.0	96.0	83.9	53.7	25.8	14.8	9.4	4.7	2.3	44.8	298
	18	100.0	99.7	96.0	84.2	59.1	34.3	17.5	7.3	4.6	56.1	303
	21	100.0	100.0	99.3	96.5	76.2	53.1	28.3	11.9	5.6	62.7	286
TOTALS		100.0	99.1	94.9	83.4	65.0	45.2	24.9	11.4	3.8	58.5	2197

OCEANAV-SMOS

2

NAVAL WEATHER SERVICE DETACHMENT
WHELETT, NORTH CAROLINA

RELATIVE HUMIDITY

47319 ATSUGI, JAPAN

73-82

ALL

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	98.4	91.9	74.9	53.3	34.2	18.7	10.7	4.8	54.3	2106
FEB		100.0	98.9	91.9	77.1	56.9	39.9	23.4	15.2	7.5	56.8	1928
MAR		100.0	99.1	93.8	80.6	64.8	49.0	33.2	20.8	9.5	60.6	2126
APR		100.0	99.6	96.2	88.8	77.4	63.3	47.2	28.6	13.2	66.9	2048
MAY		100.0	99.9	98.3	92.9	84.0	70.3	54.0	32.5	14.2	70.3	2123
JUN		100.0	100.0	99.9	99.6	96.7	87.4	71.7	48.2	18.5	77.8	2053
JUL		100.0	100.0	100.0	100.0	98.5	91.3	74.5	52.2	27.4	79.4	2126
AUG		100.0	100.0	100.0	99.6	97.1	86.3	68.8	46.8	15.2	77.1	2131
SEP		100.0	100.0	99.9	99.1	94.4	83.7	68.6	45.7	17.3	76.5	2087
OCT		100.0	100.0	99.1	95.2	86.6	72.9	56.6	32.5	14.7	71.3	2209
NOV		100.0	99.8	98.3	90.4	77.5	62.0	46.5	26.9	12.2	66.8	2164
DEC		100.0	99.1	94.9	83.4	65.0	45.2	24.9	11.4	3.8	58.5	2197
TOTALS		100.0	99.6	97.0	90.1	79.4	65.5	49.0	31.0	12.6	68.0	25298

OCEANAV-SMOS

JANUARY 1973-01; CEMBR 1982

JA:UAC:Y

NAVWEASERVCOM

WIND DIRECTION

JANUARY 1973-DECEMBER 1982 FEBRUARY

[illegible]

NAVWEASERYCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

SUBJ: JAPAN

JANUARY 1973-DECEMBER 1982

MARCH

WIND DIRECTION											
	0-9 KTS	10-19 KTS	20-29 KTS	30-39 KTS	40-49 KTS	50-59 KTS	60-69 KTS	70-79 KTS	80-89 KTS	90-99 KTS	100-109 KTS
0-9	33.3	33.3					33.3				
10-19		5.3	5.3			26.3	47.4	15.8			
20-29	3.9	8.9	6.7	5.6	34.4	28.9	4.4	1.1	1.1	19	4.3
30-39	5.3	8.8	5.9	7.1	37.6	27.6	2.9	1.2	3.5	170	8.1
40-49	17.2	17.0	9.4	7.2	22.7	13.9	6.1	1.2	3.6	337	15.8
50-59	33.6	24.7	9.9	7.4	10.1	9.5	3.0	1.3	3.6	474	22.7
60-69	50.7	24.8	6.2	2.8	3.7	3.5	1.6	2.1	4.6	568	27.2
70-79	2.3	20.9	4.8	.3	1.4	.3	.7	3.4	5.8	292	14.0
80-89	67.8	16.5	1.7	.3	.9			5.2	7.0	115	5.5
90-99	0.0	16.0	4.0	4.0		4.0		16.0	16.0	25	1.2
100-109	0.0	25.0	25.0							4	.2
TOTALS	100.0									1	.0
110-119											
120-129											
130-139											
140-149											
150-159											
160-169											
170-179											
180-189											
190-199											
200-209											
210-219											
220-229											
230-239											
240-249											
250-259											
260-269											
270-279											
280-289											
290-299											
300-309											
310-319											
320-329											
330-339											
340-349											
350-359											
360-369											
370-379											
380-389											
390-399											
400-409											
410-419											
420-429											
430-439											
440-449											
450-459											
460-469											
470-479											
480-489											
490-499											
500-509											
510-519											
520-529											
530-539											
540-549											
550-559											
560-569											
570-579											
580-589											
590-599											
600-609											
610-619											
620-629											
630-639											
640-649											
650-659											
660-669											
670-679											
680-689											
690-699											
700-709											
710-719											
720-729											
730-739											
740-749											
750-759											
760-769											
770-779											
780-789											
790-799											
800-809											
810-819											
820-829											
830-839											
840-849											
850-859											
860-869											
870-879											
880-889											
890-899											
900-909											
910-919											
920-929											
930-939											
940-949											
950-959											
960-969											
970-979											
980-989											
990-999											
TOTALS	37.5	20.3	7.1	4.6	11.9	9.4	2.7	2.2	4.4	2091	100.0

NAVWEASERVCOM

IC

2

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

5001, JA. A1

JANUARY 1973-DECEMBER 1982

APRIL

WIND DIRECTION

TEMP.	NW A. N.	N S. NE	E A. E	SE A. SE	SE A. E	SW A. SW	WSW A. W	WNW A. NW	CALM	TOTAL FREQ.	% TOTAL
1 TO 5											
6 TO 10											
11 TO 15											
16 TO 20											
21 TO 25											
26 TO 30											
31 TO 35											
36 TO 40											
41 TO 45											
46 TO 50											
51 TO 55											
56 TO 60											
61 TO 65											
66 TO 70											
71 TO 75											
76 TO 80											
81 TO 85											
86 TO 90											
91 TO 95											
96 TO 100											
101 TO 105											
106 TO 110											
111 TO 115											
116 TO 120											
121 TO 125											
126 TO 130											
131 TO 135											
136 TO 140											
141 TO 145											
146 TO 150											
151 TO 155											
156 TO 160											
161 TO 165											
166 TO 170											
171 TO 175											
176 TO 180											
181 TO 185											
186 TO 190											
191 TO 195											
196 TO 200											
201 TO 205											
206 TO 210											
211 TO 215											
216 TO 220											
221 TO 225											
226 TO 230											
231 TO 235											
236 TO 240											
241 TO 245											
246 TO 250											
251 TO 255											
256 TO 260											
261 TO 265											
266 TO 270											
271 TO 275											
276 TO 280											
281 TO 285											
286 TO 290											
291 TO 295											
296 TO 300											
301 TO 305											
306 TO 310											
311 TO 315											
316 TO 320											
321 TO 325											
326 TO 330											
331 TO 335											
336 TO 340											
341 TO 345											
346 TO 350											
351 TO 355											
356 TO 360											
361 TO 365											
366 TO 370											
371 TO 375											
376 TO 380											
381 TO 385											
386 TO 390											
391 TO 395											
396 TO 400											
401 TO 405											
406 TO 410											
411 TO 415											
416 TO 420											
421 TO 425											
426 TO 430											
431 TO 435											
436 TO 440											
441 TO 445											
446 TO 450											
451 TO 455											
456 TO 460											
461 TO 465											
466 TO 470											
471 TO 475											
476 TO 480											
481 TO 485											
486 TO 490											
491 TO 495											
496 TO 500											
TOTALS	26.2	15.4	7.1	3.0	23.0	16.6	1.7	2.2	4.9	2034	100.0

NAVWEASERVCOM

JANUARY 1973-DECEMBER 1982

M 2 Y

WIND DIRECTION

NAVWEASERVCOM

WIND DIRECTION

CONF. JA AA

JANUARY 1973-DECEMBER 1982

JUNE

WIND DIRECTION

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

SUSI, JA AN

JANUARY 1973-DECEMBER 1982

JULY

WIND DIRECTION											
	NNE A. N.	SSE A. NE	ESE A. E	ESE A. SE	SSE A. S	SSW A. SW	WSW A. W	WNW A. NW	CALM	TOTAL FREQ.	OF TOTAL
10 TO 14	9.3	5.3		8.3	50.0	8.3	8.3		8.3	12	.6
15 TO 19	.0	5.2	7.8	5.3	50.6	27.9	1.3		.6	154	7.4
20 TO 24	3.5	5.4	6.5	3.8	45.1	31.1	1.1	.3	3.2	370	17.8
25 TO 29	9.0	8.1	7.1	2.3	37.5	22.6	2.1	.7	1.6	566	27.3
30 TO 34	13.6	15.0	10.0	3.2	24.5	10.5	2.3	1.8	14.1	560	27.0
35 TO 39	31.5	22.4	8.8	2.0	8.4	5.5	1.0	3.6	16.2	303	14.8
40 TO 44	1.6	33.7	4.4	2.2	1.1		1.1	2.2	4.4	91	4.4
45 TO 49	100.0									17	.6
50 TO 54	100.0									7	.1
55 TO 59											
60 TO 64											
65 TO 69											
70 TO 74											
75 TO 79											
80 TO 84											
85 TO 89											
90 TO 94											
95 TO 99											
TOTALS	15.8	12.4	7.9	3.1	30.2	17.5	1.7	1.3	10.0	2076	100.0

NAVWEASERVCOM

II

2

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

JANUARY

JANUARY 1973-DECEMBER 1982

AUGUST

WIND DIRECTION	WIND DIRECTION									TOTAL FREQ.	% TOTAL
	0-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90		
0-10											
11-20											
21-30											
31-40											
41-50											
51-60											
61-70											
71-80											
81-90											
91-100											
101-110											
111-120											
121-130											
131-140											
141-150											
151-160											
161-170											
171-180											
181-190											
191-200											
201-210											
211-220											
221-230											
231-240											
241-250											
251-260											
261-270											
271-280											
281-290											
291-300											
301-310											
311-320											
321-330											
331-340											
341-350											
351-360											
361-370											
371-380											
381-390											
391-400											
401-410											
411-420											
421-430											
431-440											
441-450											
451-460											
461-470											
471-480											
481-490											
491-500											
501-510											
511-520											
521-530											
531-540											
541-550											
551-560											
561-570											
571-580											
581-590											
591-600											
601-610											
611-620											
621-630											
631-640											
641-650											
651-660											
661-670											
671-680											
681-690											
691-700											
701-710											
711-720											
721-730											
731-740											
741-750											
751-760											
761-770											
771-780											
781-790											
791-800											
801-810											
811-820											
821-830											
831-840											
841-850											
851-860											
861-870											
871-880											
881-890											
891-900											
901-910											
911-920											
921-930											
931-940											
941-950											
951-960											
961-970											
971-980											
981-990											
991-1000											
TOTALS	27.4	11.5	5.7	2.8	29.5	19.2	1.3	1.8	7.8	2077	100.0

NAYWEASERVCOM

WIND DIRECTION

JANUARY 1973-DECEMBER 1982 SEPTEMBER

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1. *Journal of the American Medical Association*, 1997; 277: 1033-1036.

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NAYWEASERVCOM

I

2

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

1 0001, JAPAN JANUARY 1973-DECEMBER 1982 OCTOBER

WIND DIRECTION												
SE S E	SSE S S E	SSE S E E	ESE E S E	ESE E S E	SSW S S W	WSW W S W	WNW W N W	CALM	TOTAL FREQ.	% OF TOTAL		
				100.0						1	.0	
					100.0					1	.0	
	9.1	27.3			9.1	54.5				11	.5	
6.5	26.3	9.6	11.3	23.3	21.9	1.4			73	3.4		
15.7	27.2	11.3	5.0	20.1	15.9	2.1	.4	1.3	239	11.4		
27.5	28.1	8.6	4.4	10.7	11.8	1.2	.9	4.9	431	19.8		
4.6	19.8	5.4	1.3	3.8	5.8	2.2	2.4	4.6	626	28.7		
2.5	20.8	2.2	1.0	1.0	2.0	1.4	3.8	5.4	504	23.1		
2.3	19.3	1.3		.4	3.7	2.2	6.6	3.9	228	10.5		
70.6	7.3	5.9				2.0	7.8	5.9	51	2.3		
57.1	7.1			7.1			14.3	14.3	14	.6		

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

STATION: 34 44

JANUARY 1973-DECEMBER 1982

NOVEMBER

WIND DIRECTION											
NNE & N	SSE & SE	ESE & E	ESE & E	SSE & SE	SSW & SW	SSW & SW	WSW & W	WNW & NW	W	TOTAL FREQ.	% TOTAL
				16.7	83.3					5	.3
2.5	13.2	7.9	7.9	26.9	36.8	2.6				38	1.8
2.4	20.0	9.5	5.7	23.8	30.5	4.8		2.9		105	4.9
19.1	24.2	9.8	5.1	12.5	16.8	1.2	1.6	15.2		256	12.0
47.0	20.6	5.8	3.4	7.4	7.4	1.9	2.2	4.3		417	19.6
4.3	23.7	4.0	2.0	3.3	3.3	1.3	2.6	5.8		600	28.2
29.2	22.5	3.1	.5	1.3	2.1	.8	4.7	5.9		387	18.2
5.4	18.8	1.3	.4	1.7	1.7	1.7	3.7	6.0		234	11.0
3.5	10.3		1.5		4.4	1.5	2.9	5.9		68	3.2
11.3	15.8					6.3	31.3	12.5		16	.8
0.0										1	.0
TOTALS	47.6	21.3	4.7	2.4	6.1	7.5	1.6	2.9	5.9	2128	100.0

NAVWEASERVCOM

WIND DIRECTION

1000, 1000, 1000

JANUARY 1973-DECEMBER 1982

DECEMBER

[illegible]

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

JCS, JAPAN

JANUARY 1973-DECEMBER 1982

ALL

WIND DIRECTION

TEMP.	SW A SW	WSW A WSW	W A W	WNW A WNW	W A W	WSW A WSW	WSW A WSW	WNW A WNW	CALM	TOTAL FREQ.	% OF TOTAL
10-14.9											
15-19.9											
20-24.9											
25-29.9											
30-34.9											
35-39.9											
40-44.9											
45-49.9											
50-54.9											
55-59.9											
60-64.9											
65-69.9											
70-74.9											
75-79.9											
80-84.9											
85-89.9											
90-94.9											
95-99.9											
TOTALS	73.1	17.6	6.2	3.1	17.1	11.6	2.1	2.6	6.6	24853	100.0

NAVWEASERVCOM

NO. 1, 1963
Asheville, N. C.

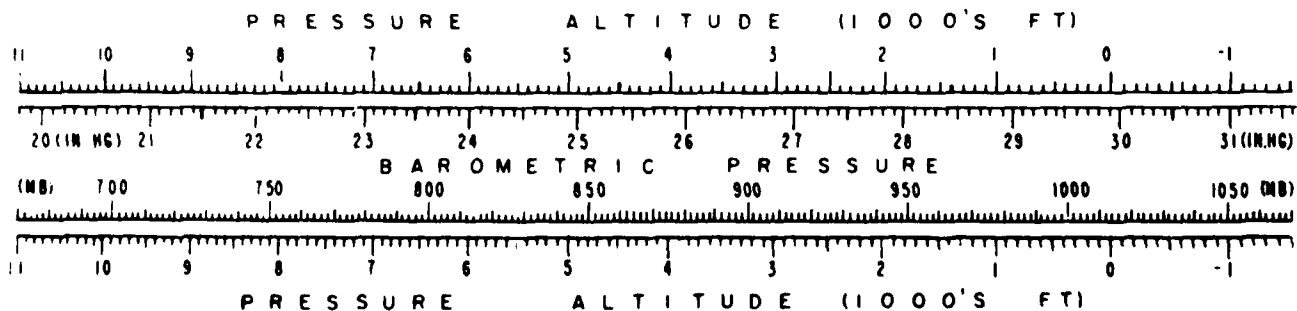
PART F

PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.
2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

47313 AYSUGI, JAPAN

73-82

STATION		STATION NAME												YEARS
MRS. L.S.T.		JAN.	FEB.	MAR.	APR.	MAY	JUN	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
7	MEAN	29.719	29.731	29.750	29.725	29.651	29.607	29.601	29.582	29.701	29.780	29.809	29.794	29.711
	S.D.	.166	.180	.234	.216	.195	.146	.112	.147	.153	.224	.216	.216	.207
	TOTAL OBS	178	162	175	176	182	181	181	180	178	213	209	213	2228
1	MEAN	29.713	29.731	29.750	29.722	29.642	29.593	29.592	29.567	29.688	29.765	29.835	29.870	29.703
	S.D.	.193	.183	.228	.216	.196	.146	.116	.154	.150	.224	.222	.213	.208
	TOTAL OBS	179	157	176	174	183	182	176	179	176	210	206	210	2206
1	MEAN	29.720	29.744	29.766	29.743	29.673	29.598	29.617	29.604	29.701	29.793	29.838	29.804	29.717
	S.D.	.191	.201	.226	.213	.196	.144	.116	.147	.144	.207	.223	.212	.203
	TOTAL OBS	267	246	272	256	268	268	297	294	298	298	292	299	3347
1	MEAN	29.749	29.765	29.795	29.757	29.681	29.608	29.626	29.614	29.707	29.826	29.868	29.843	29.737
	S.D.	.196	.207	.226	.224	.203	.156	.113	.138	.145	.212	.228	.212	.210
	TOTAL OBS	264	241	265	251	264	268	288	286	288	288	285	295	3283
1	MEAN	29.693	29.732	29.749	29.722	29.655	29.590	29.608	29.594	29.687	29.775	29.821	29.782	29.701
	S.D.	.198	.200	.224	.219	.198	.150	.112	.132	.144	.207	.229	.212	.202
	TOTAL OBS	272	247	272	258	266	283	293	301	290	300	296	299	3375
1	MEAN	29.668	29.682	29.693	29.685	29.617	29.566	29.584	29.569	29.663	29.747	29.792	29.755	29.668
	S.D.	.198	.198	.223	.218	.192	.148	.111	.134	.144	.200	.224	.210	.199
	TOTAL OBS	272	245	258	259	265	287	293	295	289	293	288	298	3342
1	MEAN	29.702	29.714	29.721	29.690	29.628	29.570	29.586	29.577	29.678	29.771	29.826	29.781	29.687
	S.D.	.193	.198	.220	.214	.192	.148	.112	.132	.142	.209	.222	.213	.203
	TOTAL OBS	271	251	275	265	271	284	296	297	293	301	293	304	3403
1	MEAN	29.721	29.743	29.766	29.736	29.668	29.602	29.619	29.610	29.706	29.802	29.852	29.797	29.718
	S.D.	.194	.199	.218	.210	.197	.145	.111	.131	.144	.207	.220	.214	.201
	TOTAL OBS	265	242	268	259	273	291	297	299	287	300	293	284	3360
ALL HOURS		29.710	29.730	29.749	29.722	29.652	29.591	29.605	29.591	29.691	29.783	29.834	29.794	29.705
		.172	.198	.226	.217	.197	.149	.114	.139	.146	.211	.224	.214	.205
		1970	1791	1959	1898	1972	2089	2121	2131	2089	2203	2164	2204	24546

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